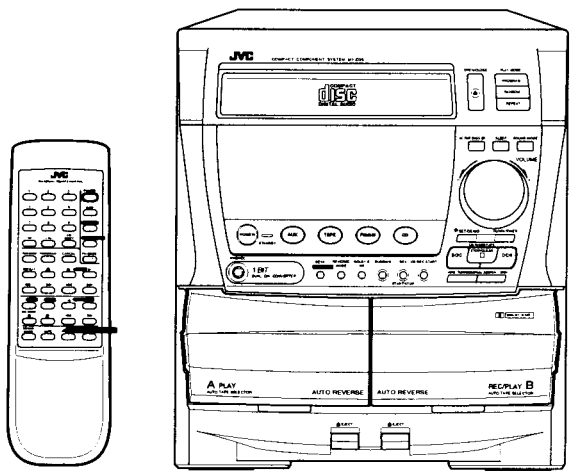
JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

CA-D3S

PIC UP	OPTIMA-6S
Lsi	TC8191F TC9284BF



Area Suffix

A	Australia
BS	the U.K.
EF	Continental Europe Except Germany & Italy
EN	Nordic Countries
G	Germany
GI	Italy
VX	Eastern Europe
UB	Hong Kong
UP	Korea
US	Singapore
UT	Taiwan
U	Universal Except All of Above

COMPACT disc DIGITAL AUDIO

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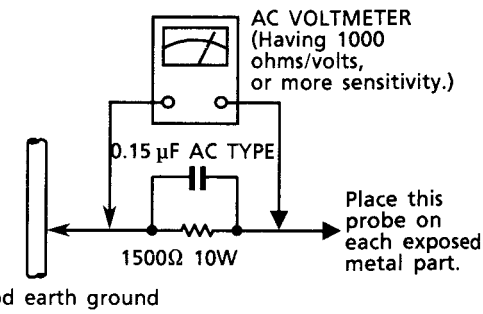
No.20560
Jan. 1996

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10 W resistor paralleled by a 0.15 µF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor.
     Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Important for Laser Products

1. CLASS 1 LASER PRODUCT
2. DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.
4. CAUTION : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION : If safety switches malfunction, the laser is able to function.
6. CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

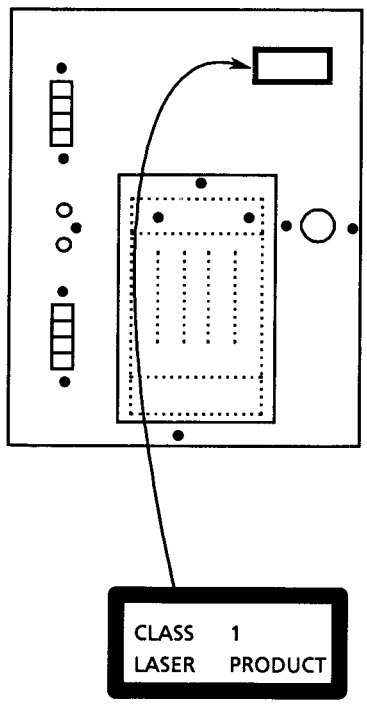
VARNING : Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

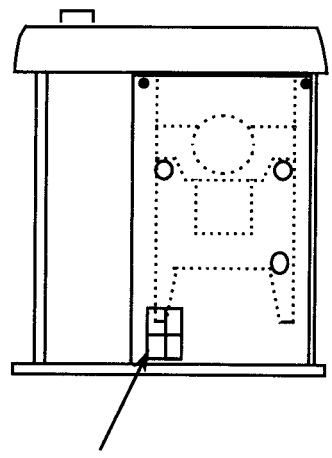
ADVARSEL : Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstråling ved åpning, når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS



CLASSIFICATION LABEL
(Except for the U.S.A. and Canada)



WARNING LABEL
(Except for the U.S,A)

DANGER: invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	VARNING: Osynling laserstråling när denna del å öppnad och spärren är urkoppled. Betrakta ej stålen. (s)
ADVARSEL: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude at funktion. Undgåudsættelse for stråling. (d)	VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

English

Thank you for purchasing the JVC Compact Component System.
We hope it will be a valued addition to your home, giving you years of enjoyment.
Be sure to read this instruction manual carefully before operating your new stereo system.
Here you will find all the information you need to set up and use the system.
For questions that are not be answered in the manual, please contact your dealer.

Features

IllumiMagic COMPU PLAY

With IllumiMagic COMPU PLAY, there is no mistake of which buttons to press for instant power on and playback. If you approach the system, the sensor detects your action, illuminates the function buttons and makes them blink. Once you've chosen the source — CD, for instance — everything else happens automatically: power to the system is turned on, the input is set to CD, and CD playback begins. That's IllumiMagic COMPU PLAY, and it makes music just a touch away.

Great sound

Pre-programmed live surround effects like D-CLUB (Dance Club), HALL, STADIUM as well as S.E.A. effects like ROCK, POPS, and CLASSIC so you don't have to be a sound engineer to get great effects.

Two timers

The two timers, REC (Recording) Timer, and SLEEP Timer are extremely easy to set.

How This Manual Is Organized

In this manual we have incorporated some special features:

- Basic information that is the same for many different functions is grouped in one place, and not repeated in each procedure. For instance, in the section on playing a CD, we do not repeat the information about setting the volume and the sound conditioning, which are talked about in the Using the Amplifier section.
- Name of buttons and controls are written in all capital letters like this: POWER.
- When we are talking about the Function, rather than the BUTTON or DISPLAY, only the first letter is capitalized.

The manual has a table of contents to help you easily look up what you want to know.
We've enjoyed making this manual for you, and hope you will use it to enjoy the sound and many features built into your CA-D3S.

IMPORTANT CAUTIONS

1. Installation of the Unit
   - Select a place which is level, dry and neither too hot nor too cold (Between 5°C and 35°C or 41°F - 95°F).
   - Leave sufficient distance between the Unit and a TV.
   - Do not use the Unit in a place subject to vibrations.
2. Power cord
   - Do not handle the power cord with wet hands!
   - Some power (17 watts) is always consumed as long as the power cord is connected to the wall outlet.
   - When unplugging the Unit from the wall outlet, always pull the plug, not the power cord.
3. Malfunctions, etc.
   - There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
   - Do not insert any metallic object into the Unit.

English

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Getting Started

Accessories

Check to be sure you have all of the following things, which are supplied with the CA-D3S.

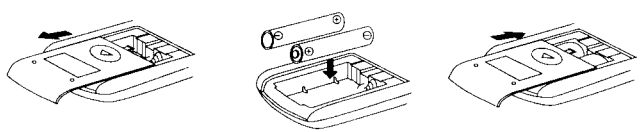
AM (MW/LW) Loop Antenna (1)
Remote Control (1)
Batteries (2)
FM Wire Antenna (1)

If any are missing, contact your dealer immediately.

How To Put Batteries In the Remote Control

Match the polarity (+ and –) on the batteries with the + and – markings in the battery compartment.

R6P (SUM-3)/AA (15F)

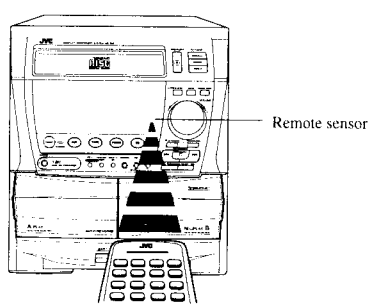


CAUTION: Handle batteries properly.
To avoid battery leakage or explosion:

- Remove batteries when the Remote Control will not be used for a long time.
- When you need to replace the batteries, replace both batteries at the same time with new ones.
- Don't use an old battery with a new one.
- Don't use different types of batteries together.

Using the Remote Control

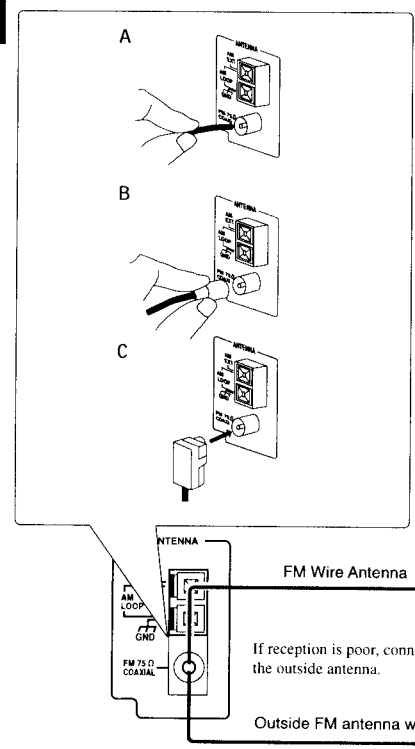
The Remote Control makes it easy to use many of the functions of the CA-D3S from a distance of up to 7 m (23 feet) away.
You need to point the Remote Control at the remote sensor on the CA-D3S's front panel.



English

CAUTION: Make all connections before plugging the Unit into an AC power outlet.

Connecting the FM Antenna



A. Using the Supplied Wire Antenna
The FM Wire Antenna provided can be connected to a FM 75-ohm COAXIAL as temporary measure.
Extend the supplied wire antenna horizontally.
For Germany
B. Using the Coaxial Type Connector (Not Supplied)
A 75-ohm antenna with coaxial type connector (DIN 45 332) should be connected to the FM 75-ohm COAXIAL terminal.
For Other Countries
C. Using an FM 75-Ohm Antenna Cable (Not Supplied)
Connect the FM connector on the FM 75-ohm COAXIAL terminal.

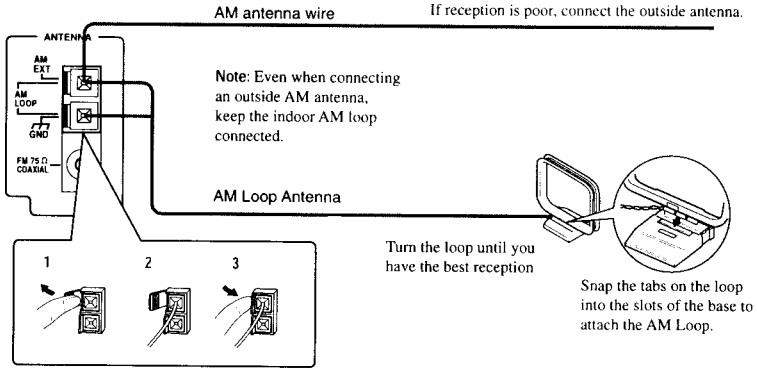
Before attaching a 75 ohm coaxial lead (the kind with a round wire going to an outside antenna), disconnect the supplied FM Wire Antenna.

CAUTION: To avoid noise, keep antennas away from metallic parts of the CA-D3S, connecting cord and the AC power cord.

(No. 20560) 1-5

CAUTION: Make all connections before plugging the Unit into an AC power outlet.

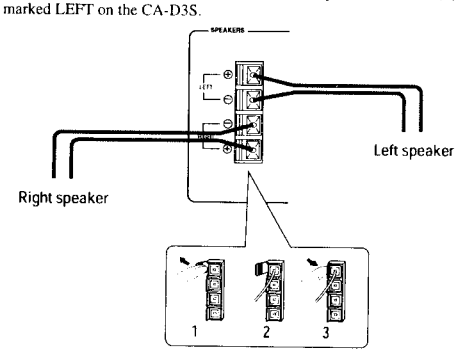
Connecting the AM (MW/LW) Antenna


AM antenna wire
If reception is poor, connect the outside antenna.
ANTENNA
AM EXT
AM LOOP
GND
FM 75Ω COAXIAL
Note: Even when connecting an outside AM antenna, keep the indoor AM loop connected.
AM Loop Antenna
Turn the loop until you have the best reception
Snap the tabs on the loop into the slots of the base to attach the AM Loop.
1
2
3

Connecting the Speakers *(Please refer to instructions for speakers as well when you connect speakers.)*

For each speaker connect one end of the speaker wire to the speaker terminals on the back of the CA-D3S and one end to the speaker.

1. Open each terminal.
2. Insert the end of the speaker wire as shown (be sure to remove the insulation at the end of each wire first).
3. Close the terminals to clamp the speaker wires firmly in place.
4. Connect the red (+) and black (–) terminals of the right side speaker to the red (+) and black (–) terminals marked RIGHT on the CA-D3S.
   Connect the red (+) and black (–) terminals of the left side speaker to the red (+) and black (–) terminals marked LEFT on the CA-D3S.



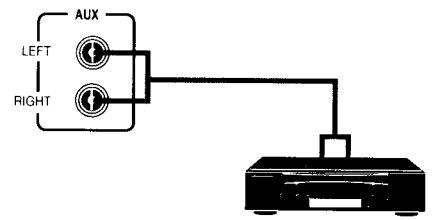
IMPORTANT: Use speakers with the correct impedance only. The correct impedance is indicated on the back panel.

CAUTION: If a TV is installed near speakers, the TV may display irregular colors. In this case, set the speakers away from the TV.

English English

CAUTION: Make all connections before plugging the Unit into an AC power outlet.

Connecting Auxiliary Equipment



VCR or other equipment
To listen to these sources, press the AUX button

Now you can plug the AC power cord into the wall outlet, and your CA-D3S is at your command!

DEMO Mode

When the CA-D3S is connected to an AC power outlet, a DEMO mode displaying some of the system's features starts.
The DEMO display cycles through the following items repeatedly.

- Scrolling display of "DEMO MODE".
- Demo of IllumiMagic COMPU PLAY buttons.
- Demo display of Live Surround effects and S.E.A effects.
- Demo display of CD RANDOM PLAY.
- Demo display of ACTIVE BASS EXTENSION.
- Demo display of pre-setting of up to 40 FM/AM channels.

The DEMO display stops when the power is turned on.
The DEMO display will start again about one minute after the CA-D3S is set to STANDBY mode (the red STANDBY indicator is on).

Turning the DEMO Display ON and Off

The DEMO display can be turned on and off when the system is in STANDBY mode.
To turn the DEMO display off, press the SET/DEMO button. The display changes from the DEMO display to the clock display.
To turn the DEMO display on, press the SET/DEMO button. The display changes from the clock display to the DEMO display.

Note: The DEMO display automatically starts when the power cord is inserted into a wall outlet. To stop the DEMO display when the power cord is inserted into the wall outlet, press the SET/DEMO button to turn the DEMO display off.

COMPU PLAY

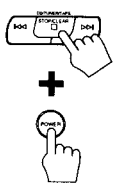
COMPU PLAY is JVC's feature that lets you control the most used functions of the CA-D3S with a single touch.
What COMPU PLAY does is to automatically turn on the power and start the function you have specified. With IllumiMagic COMPU PLAY, when you approach the system to use a function, the sensor detects your action, illuminates the function buttons and makes them blink. Not all COMPU PLAY buttons blink with the IllumiMagic COMPU PLAY function.

IllumiMagic COMPU PLAY buttons
The CD, FM/AM, TAPE and AUX buttons on the Unit.

Buttons that do not blink
On the Unit
- CD tray OPEN/CLOSE ▲ button

On the Remote Control
- AUX button
- TUNER button
- CD player Play (►) button
- CD player Open/Close (▲) button
- Cassette deck Play (◄ or ►) buttons

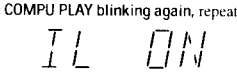
The functions performed when you use the IllumiMagic COMPU PLAY buttons are explained in the relevant section for each function.



Stopping the IllumiMagic COMPU PLAY buttons blinking

When the system is in STANDBY mode, press the POWER button on the CA-D3S while pressing the STOP/CLEAR ■ button to stop the IllumiMagic COMPU PLAY buttons blinking.

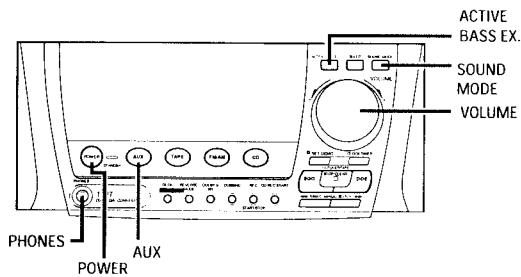
To start IllumiMagic COMPU PLAY blinking again, repeat this operation.

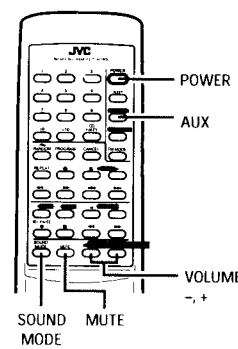


Note: IllumiMagic COMPU PLAY buttons may interfere with the remote control operation of TV's and other remote controlled equipment. If this occurs, turn off the IllumiMagic COMPU PLAY blink function.

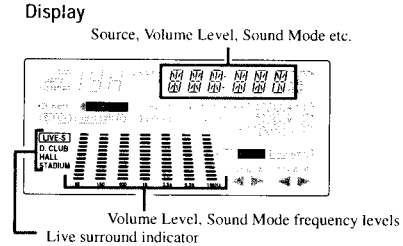
English English

Using the Amplifier





Display



When the CA-D3S is being used, the display shows other items as well. However, we have only shown the items described in this section.

Turning the Power On and Off

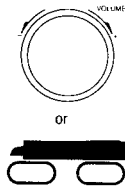
Turning the CA-D3S On

Press the POWER button.
The displays come on and the STANDBY indicator goes out.
The CA-D3S comes on ready to do whatever it was doing when the power was last shut off.
- ❑ If the last thing you were doing was listening to a tape in Deck B, you are now ready to listen to a tape again in Deck B, or you can change to another source.
- ❑ If you were listening to the Tuner last, the Tuner comes on playing the station it was last set to.

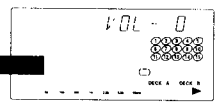
Turning the CA-D3S Off

Press the POWER button again.
The STANDBY indicator lights up and the displays blank, except for the clock display.
- ❑ Some power (17 watts) is always consumed even though power is turned off (called Standby Mode).
- ❑ To switch off the Unit completely, unplug the AC power cord from the AC outlet. When you unplug the AC power cord, the clock will reset to 0:00 right away, and preset Tuner stations will be erased after a few days.

Adjusting the Volume



Turn the VOLUME control clockwise to increase the volume or counterclockwise to decrease it. Turning the VOLUME control quickly also adjusts the volume level quickly.
When use the Remote Control, press the VOLUME + button to increase the volume or press the VOLUME – button to decrease it.



Display when the volume level is set to 0

Display when the volume level is set to 20

Display when the volume level is set to its maximum level

❑ The numbers on the display will disappear after a few seconds. At the same time, the graphic display will change to a dark display that continues to show the volume level.

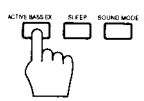
For private listening
Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting headphones.

CAUTION: The Volume cannot be adjusted while the Unit is in STANDBY mode. DO NOT turn on the Unit and/or start playing any source without setting the VOLUME control to 0; otherwise, the sudden blast of sound can damage your hearing, speakers and/or headphones.

MUTE Function

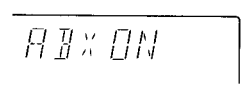
Set the Volume Level to 0 by pressing the MUTE button on the Remote Control. Press this button again to restore the Volume Level to its previous level.

Enhancing the Bass Sound (Reinforcing the Bass Sound)

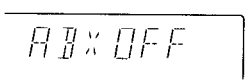


The richness and fullness of the bass sound is maintained regardless of how low you set the volume. You can use this effect in all listening operations.

To get the effect, press the ACTIVE BASS EX. (Active Bass Extension) button so that "ABXON" lights in the display for a few seconds.



To cancel the effect, press the button again so that "ABXOFF" lights in the display for a few seconds.



Sound Modes

The CA-D3S has some preset sound effects that give you control of the way your music sounds, so you can tailor it for your room and for the quality of the source. We can give you some idea of how each one affects the music, but the only way to really tell is to try them yourself.
You can use only one effect at a time. Live Surround or S.E.A. effects can be used in all listening operations.

Live Surround Effects

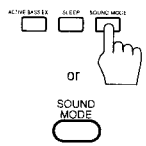
With these effects, the sound coming from only two speakers approaches the quality of sound from four speakers.

D-CLUB (Dance Club)	Increases resonance and bass.
HALL	Adds depth and brilliance to the sound, like in a concert hall.
STDM (STADIUM)	Adds clarity and spreads the sound, like in an outdoor stadium.

Preset S.E.A. (Sound Effect Amplifier) Effects

Adjustments of frequency range levels have been preset as three S.E.A. effects.

ROCK	Boosts low and high frequencies.
POPS	Good for vocal music.
CLASC (CLASSIC)	Set for wide and dynamic sound stereo systems.



To get an effect, press the SOUND MODE button repeatedly until the Sound Mode you want appears in the display.
Each time you press the button, the modes change as follows:

→D-CLUB→HALL→STDM→ROCK→POPS→CLASC→FLAT

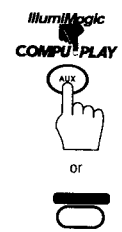
❑ When Live Surround effect is selected, "LIVE-S" lights up on the display and the selected Mode indicator comes on.

To cancel the effect, press the SOUND MODE button until "FLAT" is displayed, so no sound mode is applied.

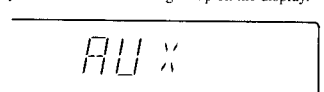
Listening To Optional Equipment

By playing the sound from auxiliary equipment through the CA-D3S, you can gain control over how the music or program sounds. Once the connected equipment is playing through the CA-D3S, you can apply the sound effects, make recordings, or listen with the headphones.

❑ First make sure that the optional equipment is properly connected to the CA-D3S.



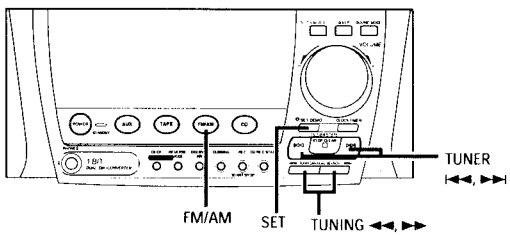
1. Set the VOLUME control to 0.
2. Press the AUX button.
   The Unit automatically turns on and "AUX" lights up on the display.

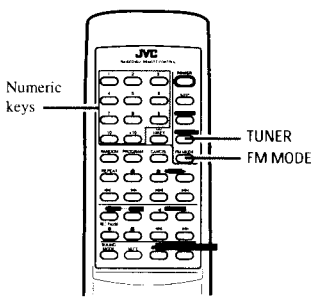


3. Start playing the selected equipment.
4. Adjust the VOLUME control to the desired listening level.
5. Select a sound effect mode, if you wish.

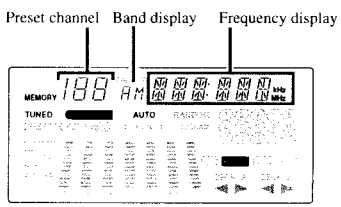
To Cancel the Setting
Change the source by starting any one of the CA-D3S's built-in sound sources, such as the Tuner or CD Player.

Using the Tuner





Display



When the CA-D3S is being used, the display shows other items as well. However, we have only shown the items described in this section.

You can listen to both FM and AM (MW/LW) stations. Stations can be tuned in manually, automatically, or from preset memory storage.

❑ Before listening to the radio:
- Check that both the FM and AM (MW/LW) antennas are firmly connected.

One Touch Radio

Just press the FM/AM button (or the TUNER button on the Remote Control) to turn on the Unit and start playing the most recent station tuned in.

❑ You can switch from any other sound source to the radio by pressing the FM/AM button (or the TUNER button on the Remote Control).

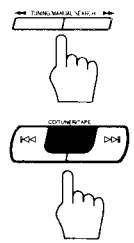
Tuning In to a Station

Press the FM/AM button (or the TUNER button on the Remote Control) to turn on the radio. The frequency of the previously selected channel appears on the display.

Switching between Frequency Bands

Press the FM/AM button (or the TUNER button on the Remote Control).
Each time you press the button, the band alternates between FM and AM (MW/LW).

English English



Three ways to select a station

❑ Press the TUNING ◄◄ or ►► button repeatedly to move from frequency to frequency until you find the one you want.

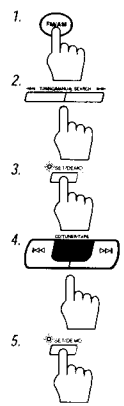
OR

❑ Hold down the TUNING ◄◄ or ►► button, the frequency starts changing on the display. When a station is tuned in, "TUNED" lights up on the display and the frequency stops changing.

OR

❑ (Possible only after presetting stations.)
Press once and release the TUNER |◄◄ or ►►| button to go to the next preset station, or hold the TUNER |◄◄ or ►►| button to cycle through the preset stations: release the button when the preset station you want shows on the display.
You can also use the Remote Control to tune in preset channels:
1. Press the TUNER button so that you can receive the most recent station tuned in.
2. Select the station by entering the preset number in the numeric keys of the Remote Control.
   ❑ Example: for channel 5, press 5. For channel 15, press +10 then 5. For channel 20, press +10, then 10. For channel 32, press +10 three times, then 2.

Presetting Stations



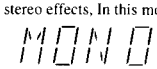
You can store up to 40 of your favourite radio stations (FM and AM (MW/LW)) in memory, giving you quick, easy access to the stations.

1. Select a band by pressing the FM/AM button (or TUNER button on the Remote Control).
2. Press the TUNING ◄◄ or ►► button to tune in a station.
3. Press the SET button.
   The SET button indicator comes on and "MEMORY" lights up on the display and blinks for five seconds.
   ❑ During these five seconds while "MEMORY" is blinking, you can assign a channel number to the station and enter it into the memory.
4. Select a channel number by pressing the TUNER |◄◄ or ►►| button until you find the channel number you want.
5. Press the SET button and the station will be assigned to the channel number showing on the display.
   ❑ If a station has been previously stored using the same channel number, this will be erased and the newly selected station will be stored.
   ❑ If "MEMORY" in the display goes off, start again from step 3.
6. Repeat steps 1 - 5 for each station you want to store in memory with a preset number.

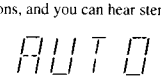
CAUTION: If the Unit is unplugged or if a power failure occurs, the preset stations will be erased in a few days. If this happens, preset the stations again.

To Change the FM Reception Mode

When an FM stereo broadcast is hard to receive or noisy, press the FM MODE button on the Remote Control. The "AUTO" indicator goes out and "MONO" lights up on the display for several seconds. Reception improves, but there are no stereo effects, In this monaural mode, noise comes out while tuning in stations.



To restore the stereo effect, press the FM MODE button on the Remote Control. The "AUTO" indicator comes on and "AUTO" lights up on the display for several seconds. In this stereo mode, no noise comes out while tuning in stations, and you can hear stereo sounds when a program is broadcast in stereo.



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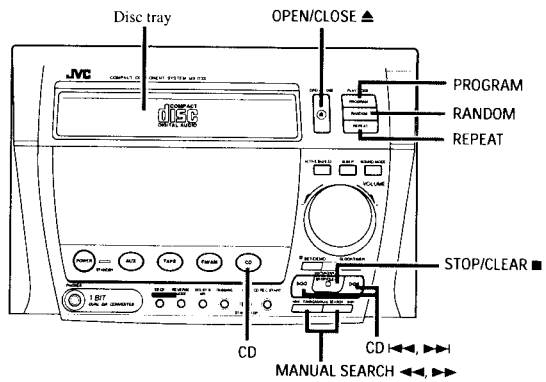
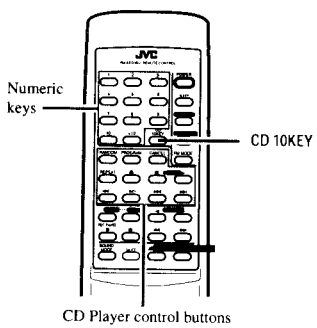
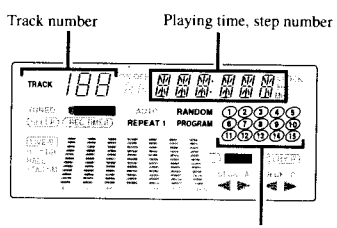
Using the CD Player





Display



When the CA-D3S is being used, the display shows other items as well. However, we have only shown the items described in this section.

The Quickest Way To Start a CD Is With the One Touch Operation

The power comes on and operations are done automatically.

- ❑ Press the CD button (or the ▶ button on the Remote Control).
  When there is a disc in the CD Player, the disc is played.
  When there is no disc in the CD Player, the message "OPEN" appears on the display after a few seconds and the disc tray opens.
- ❑ Press the OPEN/CLOSE ▲ button (or ▲ button on the Remote Control).
  The power turns on, and the tray opens automatically.

English

English

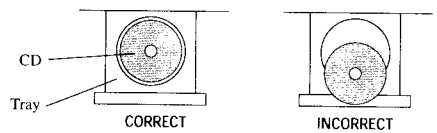
Basics of Using the CD Player

Here are the basic things you need to know to play a CD and locate the different selections on it. Each selection is called a track, so when we are talking about locating a track, we are also talking about how you find a certain song or performance.

To Play the Disc

1. Press the OPEN/CLOSE ▲ button (or the ▲ button on the Remote Control).
   The Unit automatically turns on and disc tray comes out.
2. Put the CD, with its label side up, into the tray.

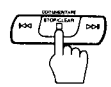
ATTENTION: To avoid malfunctions when you play a CD, please set the CD in the right place at the center of the tray.



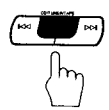
- ❑ To put an 8 cm CD into a tray, insert it so that it is aligned with the groove in the tray's center.

3. Press the CD button (or ▶ button on the Remote Control).
   The disc tray automatically closes and the disc is played from track 1.

- ❑ To close the disc tray without playing the CD, press the OPEN/CLOSE ▲ button (or ▲ button on the Remote Control) again.



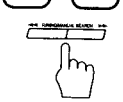
To stop during play, press the STOP/CLEAR ■ button (or the ■ button on the Remote Control).
To stop play and remove the disc, press the OPEN/CLOSE ▲ button (or ▲ button on the Remote Control)
To pause, press the CD button while the CD is playing. The CD button starts to blink. (Pause cannot be done with the Remote Control)
To cancel pause (resume playing), press the CD button again. The CD button stops blinking and play continues from the point where it was paused.



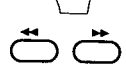
How to Find the Track or particular Point You Want

- ❑ Each time you press briefly and release the CD ⏮ or ⏭ button the track changes by one.
  - Press and release the CD ⏭ button to go ahead one track at a time.
  - Press and release the CD ⏮ button to go back one track at a time.
- ❑ Holding down the CD ⏮ or ⏭ button allows you to change tracks continuously.

The ⏮ or ⏭ button on the Remote Control can be used to perform the same operation.



- ❑ Holding down the MANUAL SEARCH ◀◀ or ▶▶ button, while a disc is playing, will fast forward or fast reverse the CD so you can quickly find the particular part of a track you want to listen to.



The ◀◀ or ▶▶ button on the Remote Control can be used to perform the same operation.

Locating a Track With the Remote Control Directly

Using the numeric keys on the Remote Control allows you to go directly to the beginning of any track.

1. Press the CD 10KEY button.
2. Enter the number of the track you want to listen to with the numeric keys.
   The selected track starts playing.
   - ❑ Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

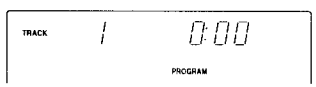
Programming the Playing Order of the Tracks

You can arrange the tracks to play in any order you like with the Program function.
By using the Remote Control, you can easily program tracks.

- ❑ You can program up to 20 steps in any desired order from among the disc in the player.
- ❑ You can only make or change a program when the CD Player is stopped.

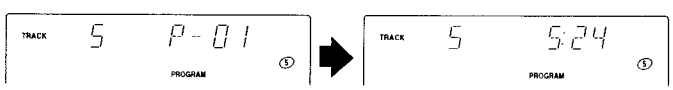
Using the Remote Control

1. Press the PROGRAM button.
   "PROGRAM" lights up on the display and then "0:00" is displayed. The SET button indicator also comes on.



2. Press the CD 10KEY button.
3. Press the numeric keys (1 to 10 and +10) to select the track to program.
   - ❑ Example: for track 5, press 5. For track 15, press +10 then 5. For track 20, press +10, then 10. For track 32, press +10 three times, then 2.

   The selected track number and step number are displayed for a few seconds in the display and then the step number changes to the total time for the programmed tracks.

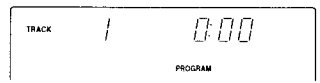


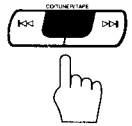
4. Repeat step 3 to select the other tracks for the program.
5. Press the ► button.
   The Unit plays the tracks in the order you have programmed them.

English English

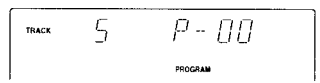
Using the Unit

1. Press the PROGRAM button.
   "PROGRAM" comes on in the display and "0:00" is displayed. The SET button indicator also comes on.

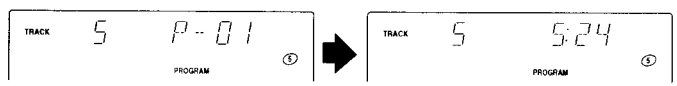




2. Press the CD I◄◄ or ►►I buttons to select the track to program.
   The selected track number and step number are displayed.



3. Press the SET button while the step number is displayed.
   Confirm the track number and step number. After the program has been confirmed, the step number changes to the total time for the programmed tracks.

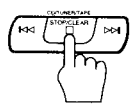


- ❑ If the step number is no longer displayed, repeat the process from step 2.

4. Repeat steps 2 and 3 to select the other tracks to be programmed.

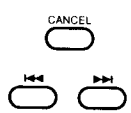
5. Press the CD button.
   The Unit plays the tracks in the order you have programmed them.

- ❑ You can skip to a particular program step by pressing the CD I◄◄ or ►►I button (or the I◄◄ or ►►I button on the Remote Control) during program play.
- ❑ To play the programmed tracks over and over, press the REPEAT button. "REPEAT" lights up on the display.



To stop playing, press the STOP/CLEAR ■ button (or the ■ button on the Remote Control) once.
To delete everything in a program, press the STOP/CLEAR ■ button on the Unit while the CD Player is stopped.
To cancel Program Play and erase the program, press the PROGRAM button while the CD Player is stopped. Press the OPEN/CLOSE ▲ button (or the ▲ button on the Remote Control) while a CD is playing.

To Check the Program



Using the Remote Control
Press the CANCEL button while the CD Player is in stop mode. The last track in the program appears in the display for about four seconds. Press the I◄◄ or ►►I button while the display is still visible to check the contents of the program. Pressing the I◄◄ button displays the previous step in the program, pressing the ►►I button displays the next step in the program. After four seconds, the display returns to the total time for the programmed tracks from the track number display. If the CANCEL button is pressed again while the display is still visible, the display changes to the last track in the program again.

(No. 20560) 1-11

CA-D3S

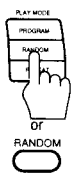
English

To Modify the Program

Using the Remote Control

Before you start playing a program, you can delete the last track in the program.
Press the CANCEL button to make the last track number in the program appear in the display.
Press the CANCEL button again to delete the track.
Each time you press the button, the last track listed in the program is deleted from the program.
To add a track to the program, before playback, press the numeric keys for the track numbers you want to add.

Random Play



The tracks will play in no special order when you use this mode.

1. Press the OPEN/CLOSE ▲ button to open the disc tray and insert a disc.
2. Press the RANDOM button.
   "RANDOM" lights up on the display, the disc tray is automatically closed and the tracks are played in random order.

- ❑ To play a disc already in the CD Player, press the RANDOM button while the CD Player is not playing.
- ❑ When all of the tracks have been played, the CD stops.
- ❑ Press the REPEAT button before or during random play to instruct the CA-D3S to continue with a different random track selection after the last selection is played.

To cancel random play, press the STOP/CLEAR ■ button (or the ■ button on the Remote Control).

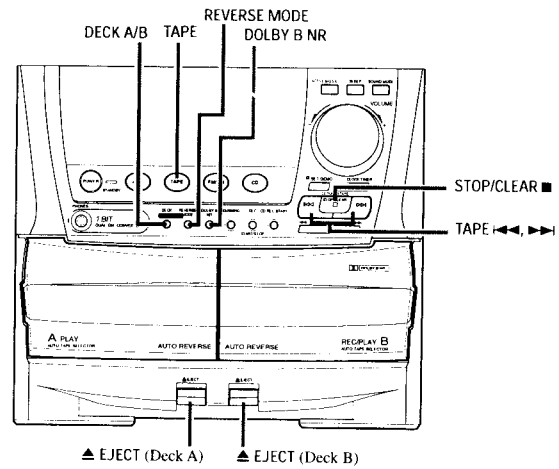
Repeating a Selection Or the Entire Disc

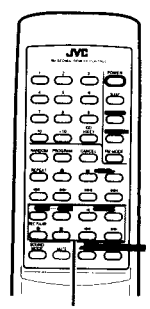
You can have either the program or the individual selection currently playing repeat as many times as you like.

Press the REPEAT button on the CD Player.
Each time you press the REPEAT button , it cycles from function-off, which turns "REPEAT" indicator off on the display, to "REPEAT" which will repeat all the tracks in order or according to the program you have set, and then to "REPEAT 1" which will repeat the currently playing track.

To exit Repeat Mode, press the REPEAT button so that neither "REPEAT" nor "REPEAT 1" appears on the display.

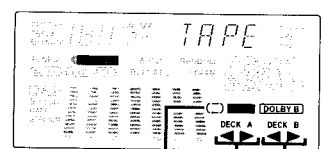
Using the Cassette Deck (Listening to a Tape)





Cassette Deck control buttons

Display



Reverse Mode indicator | DECK A indicator | DECK B indicator

When the CA-D3S is being used, the display shows other items as well. However, we have only shown the items described in this section.

The Cassette Deck allows you to play, record and dub audio tapes.

- ❑ Most tapes are now recorded with the Dolby NR system, so first check which type of the Dolby NR system has been used on the tape. Only Dolby B NR is incorporated into the CA-D3S.
- ❑ With Automatic Tape Detection, you can listen to Type I or II tapes without changing any settings.

> The use of tapes longer than 120 minutes is not recommended, since characteristic deterioration may occur and these tapes easily jams in the pinch-rollers and the capstans.

One Touch Play

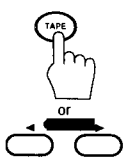
❑ Press the TAPE button.
The power comes on and "TAPE" lights up on the display . When a tape is already in the tape deck, the tape is played in direction of the blinking Tape Direction indicator. If no tape is loaded, the CA-D3S automatically turns on and wait for you to insert a tape, or select another function.

❑ Press the ◄ or ► button on the Remote Control.
The power comes on and "TAPE" appears in the display. When a tape is already in the tape deck, the tape is played in the direction of the button pressed. If no tape is loaded, the CA-D3S automatically turns on and wait for you to insert a tape, or select another function.

Regular Play

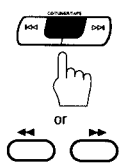
When the power is already on, you can use this basic procedure:

1. **Press the ▲ EJECT button for the deck you want to use.**
2. **When the cassette holder opens, put the cassette in, with the exposed part of the tape down, toward the base of the CA-D3S.**
   ❑ If the cassette holder does not open, turn the Unit off, then back on and press the ▲ EJECT button again.
3. **Close the holder gently.**
   When both Deck A and Deck B contain a tape, the last deck to have a tape inserted is selected.
   To change the selected deck, press the DECK A/B button.
   When using the Remote Control, press the A or B button.



4. **Press the TAPE button.**
   The tape is played in the direction of the indicator for the selected deck.
   To change the play direction for the tape, press the TAPE button again.
   When using the Remote Control, press the ◄ or ► button. The tape is played in the direction of the button pressed.
   ❑ The Cassette Deck automatically stops when one side of a tape has finished playing.

To stop playing, press the STOP/CLEAR ■ button (or the ■ button on the Remote Control).
To remove the tape, stop the tape, and press the ▲ EJECT button.
To change deck while playing a tape, press the TAPE button after pressing the DECK A/B button.
To change the direction of a tape while the Cassette Deck is stopped, press the TAPE button twice.



Fast Left And Fast Right

❑ While the tape is stopped, press the TAPE ⏮ button (or the ◄◄ button on the Remote Control) and the tape will wind rapidly onto the left side of the cassette without playing.

❑ While the tape is stopped, press the TAPE ⏭ button (or the ►► button on the Remote Control) and the tape will wind rapidly onto the right side of the cassette without playing.

The MANUAL SEARCH ◄◄ or ►► buttons on the Unit can also be used for this operation.

Note: Deck A and Deck B cannot be used for playback at the same time.

DECK A and DECK B Indicators

DECK A ◄ ► DECK B ◄ ►

The DECK A and DECK B indicator light the ◄ or ► indicator for the selected deck.
During playback, the direction indicator blinks slowly. During fast forward or fast reverse, the indicator blinks quickly.
During Music Scan mode, the direction indicator alternates between blinking slowly and quickly repeatedly.

Music Scan

To find the beginning of a music track during play, use the Music Scan function. Music Scan searches for blank portions that usually separate tracks, then plays the next song.

To Find the Beginning of the Current Song

Press the TAPE ⏮ or ⏭ button (or the ◄◄ or ►► button on the Remote Control) during play.

❑ Make sure that you press the TAPE ⏮ or ⏭ button (or the ◄◄ or ►► button on the Remote Control) in the opposite direction to that in which the tape is playing. Searching stops at the beginning of the current song, and the current song starts automatically.

To Find the Beginning of the Next Song

Press the TAPE ⏮ or ⏭ button (or the ◄◄ or ►► button on the Remote Control) during play.

❑ Make sure that you press the TAPE ⏮ or ⏭ button (or the ◄◄ or ►► button on the Remote Control) in the same direction as that in which the tape is playing. Searching stops at the beginning of the next song, and the next song starts automatically.

Music Scan works by detecting a 4-second long blank at the beginning of each selection, so it won't work well if your tape has:

- No blank at the beginning of a track
- Noise (often caused by much use or poor quality dubbing) which fills the blank with noise.
- Long, very soft passages or pauses in a selection. The scan will detect these as 4-second long blanks. If this happens, just scan again until you reach the selection you want.

Other Useful Features of the Cassette Deck

❑ Use **Reverse Mode** to make the tape automatically reverse at the end of a side and start playing the other side. Press the REVERSE MODE button to change from Reverse Mode on to Reverse Mode off, or from off to on.

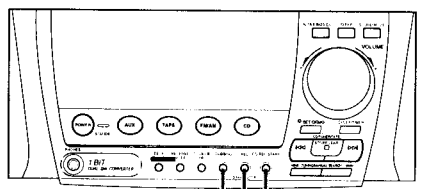
Reverse Mode ON Reverse Mode OFF

❑ **Continuous Play:** With the Reverse Mode indicator on, when tape playback in the ◄ direction finishes, the Unit always checks to see if a tape is in the other deck. If there is, it automatically starts playing. This Continuous Play function works regardless of which deck starts first.

❑ Press the DOLBY B NR button to switch Dolby B Noise Reduction on (the indicator lights up) or off (the indicator goes off). If a tape is recorded with the Dolby B NR system, playing it back with the Dolby NR on will reduce tape noise and improve the clarity of the sound.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

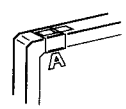
Using the Cassette Deck (Recording)



Recording onto a cassette from any of the sound sources is simple. Just place a tape in Deck B, have the source ready, make one or two settings, and you're ready to record. For each source the procedure is a little different and now we'll explain just what to do for each one. If you forget, just come back to the section which has the specific procedures you need. But first, here are a few things to make your recordings better.

Things To Know Before You Start Recording

- It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.
- Press the DOLBY B NR button — the indicator lights up — to reduce tape hiss, except when dubbing tapes, since Dolby NR is inactive in Dubbing Mode regardless of the setting of DOLBY B NR. The dubbed tape automatically contains the same processing as the source tape.
- The recording level, which is the volume at which the new tape is being made, is automatically set correctly, so it is not affected by the VOLUME control on the CA-D3S. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- Two small tabs on the back of the cassette tape, one for side A and one for side B, can be removed to prevent accidental erasure or re-recording.
  To record on a cassette with the tabs removed, you must cover the holes with adhesive tape first. However, when a Type II tape is used, only cover part of the hole as shown, since the other part of the hole is used to detect the tape type.



- When recording, you can hear Sound Mode effects through the speakers or headphones. However, the sound is recorded without Sound Mode effects.
- Type I and Type II tapes can be used for recording.

Note: At the start and end of cassette tapes, there is leader tape which cannot be recorded onto. Depending on the recording source, the first part of the recording may be missing because of the leader. When recording CDs or radio broadcasts, to get the beginning of the recording on the tape, first wind on the leader before beginning recording.

CAUTION: If recordings you have made have excessive noise or static, the Unit may be too close to a TV which was on during the recording. Either turn off the TV or increase the distance between the TV and the CA-D3S.

English English

Standard Recording

This is the basic method for recording any source. The CA-D3S also has special ways for recording CD to tape, and tape to tape, which save you time and effort, as well as give you some special effects.
However, when you need to add a selection to a tape you have made, or are combining selections from several sources on one tape, use the method described below; just substitute the source you want into this procedure, such as a tape in Deck A, a CD, or the Tuner. You can also record from an auxiliary source with this procedure.

To Record Any Sound Source To Tape

Follow these steps to record from any sound source onto a tape in Deck B.

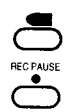
Using the Unit

1. Insert a blank or erasable tape into Deck B.
2. Press the REVERSE MODE button if you want to record on both sides of the tape.
   Reverse Mode comes on.
   - When using Reverse Mode, insert the tape so that it will be recorded in the forwards ► direction.
3. Check the recording direction for the tape.
   Check that the direction indicator for Deck B is the same as that for the tape to be recorded. If the directions are different, press the TAPE button twice then press the STOP/CLEAR ■ button.
   - When using Reverse Mode to record both sides of a tape, check that the direction indicator for Deck B is in the forwards ► direction. If the direction indicator is not in the forwards ► direction, press the TAPE button twice then press the STOP/CLEAR ■ button.

4. Prepare the source, by, for example, tuning in a radio station, loading CDs, or turning on connected equipment.
5. Press the REC START/STOP button.
   The "REC" indicator lights up and the CA-D3S starts recording.

Using the Remote Control

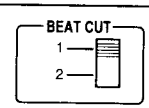
1. Insert a blank or erasable tape into Deck B.
2. Press the [redacted] button.



3. Press the REC PAUSE button.
   The "REC" indicator lights up.
4. Press the REVERSE MODE button if you want to record on both sides of the tape.
   Reverse Mode comes on.
   - When using Reverse Mode, insert the tape so that it will be recorded in the forwards ► direction.
5. Prepare the source, by, for example, tuning in a radio station, loading CDs, or turning on connected equipment.

6. Press the ◄ or ► button.
   Recording starts in the direction of the button pressed.
   - When using Reverse Mode to record both sides of a tape, press the ► button.

If you are recording an AM (MW/LW) broadcast and you hear interference, move BEAT CUT switch on the back panel from position 1 (the normal mode) to position 2.



Notes for using Reverse Mode for recording

When recording in Reverse Mode, the CA-D3S automatically stops at the end of the reverse ◄ direction. To record both sides of a tape, make sure that recording direction for the tape inserted into Deck B is forwards ►, and that the direction indicator for DECK B is also forwards ►, before you start recording.

To Pause At Any Time During the Recording Process
Press the REC PAUSE button on the Remote Control. Then press either the ◄ or ► button on the Remote Control or REC START/STOP button on the Unit to restart recording.

To Stop At Any Time During the Recording Process
Press the REC START/STOP button on the CA-D3S again, or press the ■ button on the Remote Control.

CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to an order you have set in a program.

1. Prepare a CD. (See page 14.)
   Check that the CD Player is stopped.
2. Insert a cassette in Deck B to record on.
   - ❑ To record on both sides of the tape, press the REVERSE MODE button to turn Reverse Mode on. Check that the recording direction and the direction indicator for DECK B are correct. (See "Notes for using Reverse Mode for recording" earlier on this page.)

3. Press the CD REC START button.
   The Unit starts recording and plays the CD.

   If you selected the Reverse Mode, the reverse side starts with the last selection on the front side. (A 10 second blank is created at the beginning of the reverse side.)
   When the tape is finished, the Unit stops the CD Player and the Cassette Deck.

To Stop At Any Time During the Recording Process
Press the STOP/CLEAR ■ button.

Note: When making SLEEP timer settings while doing CD Direct recording, set the time so that there is enough leeway to finish the recording before the power goes off. If the time is set to about the length of the CD, the power may go off before recording finishes.

> For CD Direct Recording using more than one disc, use a blank tape. If you use a pre-recorded tape, pre-recorded sound may not be erased between newly-recorded tracks.

English English

Tape To Tape Recording (Dubbing)

Recording from one tape to another is called dubbing.
You can dub tapes simply, with just a single button.

- ❑ When dubbing tapes, make sure that the playback direction of Deck A and Deck B are the same.
- ❑ When you want to dub to both sides of a tape, press the REVERSE MODE to turn Reverse Mode on. Make sure that the play direction for the tapes in both Deck A and Deck B are in the forwards ► direction, and that the direction indicator for DECK A and DECK B are also in the forwards ► direction before you start recording.
- ❑ It is preferable that the type of tape (Type I or Type II) you record from be the same as the type you record onto.

How To Use the DUBBING Button

1. Insert the source cassette you want to copy from into Deck A for playback.
2. Insert the blank or erasable cassette you want to copy onto in to Deck B for recording.
3. Press the DUBBING button.
   Deck A and Deck B will start simultaneously.

To stop dubbing, press the REC START/STOP button (or ■ button on the Remote Control).

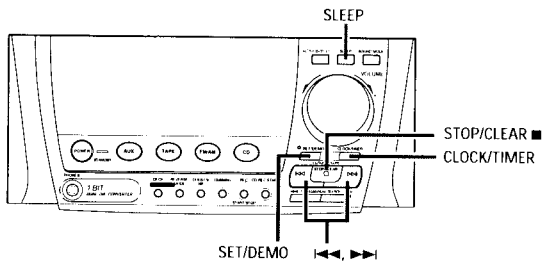
- ❑ Dolby NR is inactive in dubbing mode regardless of the setting of DOLBY B NR. The dubbed tape automatically contains the same processing as the source tape.
- ❑ When dubbing with the DUBBING button, you can hear Sound Mode effects through the speakers or headphones. However, the sound is dubbed without Sound Mode effects.

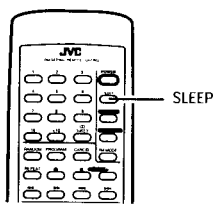
Recording With the Timer

The Cassette Deck can be set to record a tape automatically. This is especially useful for recording broadcasts when you are not at home, or late at night when you are asleep.

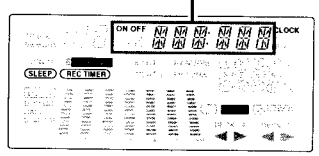
1. Insert a cassette for recording into Deck B.
2. Set the REC Timer, by following the steps in "Setting the REC (Recording) Timer" (Page 26).

Using the Timers





Display Clock, timer-on time



When the CA-D3S is being used, the display shows other items as well. However, we have only shown the items described in this section.

Two types of timers are available:

- ❑ REC (Recording) Timer — Unattended recording of radio broadcasts. You can set the starting time and length of the recording.
- ❑ SLEEP Timer — Fall asleep and have your CA-D3S turn off automatically after a certain length of time.

Clock Setting

The timers depend on the clock: the clock must be right for the timers to work as you expect. Note that the clock must be set, or the timers cannot be set.

Setting the Clock

1. Press the CLOCK/TIMER button until the "CLOCK" indicator is shown on the display.
   The SET/DEMO button indicator lights up.

2. Set the hour by pressing the I◄◄ or ►►I button.
   Pressing the ►►I button increases the hour, and pressing I◄◄ button decreases it.
   Holding down these buttons allows you to change the hour setting until the button is released.

3. Press the SET/DEMO button.
   The hour is now set.

4. Set the minutes by pressing the I◄◄ or ►►I button.
   Pressing the ►►I button increases the minute, and pressing I◄◄ button decreases it.
   Holding down these buttons allows you to change the minute setting in 10 minute increments until the button is released.

5. Press the SET/DEMO button.
   The SET/DEMO button indicator goes out and the clock is set to the hour and minute you have selected. The clock starts from zero seconds.

CAUITON: If there is a power failure, the clock loses its setting. The display shows "0:00", and the clock must be reset.

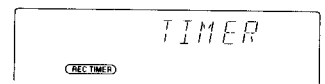
Setting the REC (Recording) Timer

With the Recording Timer you can make a tape of a radio broadcast automatically whether or not you are home. For the timer to work correctly, you need to make sure of the following in addition to setting the time for the Tuner and Cassette Deck to come on:

- ❑ You can set the Recording Timer whether the Unit is on or off.
- ❑ The tape you want to record onto must be in Deck B.
- ❑ The radio station whose program you want to tape must be the last one tuned before the timer comes on.

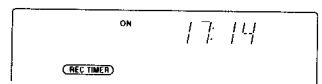
Procedure For Setting the Recording Timer

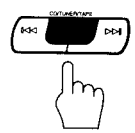
1. Press the CLOCK/TIMER button.
   "TIMER" appears in the display and "REC TIMER" blinks. As long as displayed, you can continue with the setting process.



- ❑ If you wait too long, and they disappear before you are done, just press the CLOCK/TIMER button once and start over.

2. Press the CLOCK/TIMER button again.
   The TIMER display changes to the time set display for the Timer to come on.





3. Set the time you want the radio to come on and the tape in Deck B to start recordig.
   - ❑ Use the I◄◄ or ►►I button just like setting the clock. See page 25.
4. Set the time you want the radio to shut off and the tape in Deck B to stop recording.
   - ❑ Use the I◄◄ or ►►I button just like setting the clock. See page 25.

   The "REC TIMER" indicator lights up.
   The Unit will memorize the setting. When the set time comes, the CA-D3S turns the power on and records the broadcasting station you selected last, before turning the power off.
   - ❑ If a button is pressed when the Recording timer is operating, recording continues but the timer is cancelled.

Before the Timer Starts

- ❑ Check that the recording direction and the direction indicator for DECK B are the same.
- ❑ Turn Reverse Mode on if you want to record on both sides of the tape. Check that the recording direction and the direction indicator for DECK B are correct. (See "Notes for using Reverse Mode for recording" on page 23.)
- ❑ Set the VOLUME control to 0 so that no sound comes out from speakers when the recording timer switches on the CA-D3S. This is important especially if you will be out during the recording.

It is very easy, and can be very disappointing, to forget to put in a tape, or to accidentally leave a tape in Deck B you don't want recorded over. Although this happens to almost everyone at one time or another, we hope it won't happen to you!

To Change the Recording Timer Setting

Press the CLOCK/TIMER button twice ("REC TIMER" reappears) and make any changes you want.

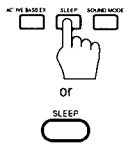
To Cancel the Recording Timer Setting

Press the STOP/CLEAR ■ button after pressing the CLOCK/TIMER button again.

Setting the SLEEP Timer

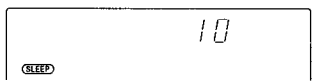
Use the Sleep Timer to turn the Unit off after a certain number of minutes when it is playing. By setting this timer, you can fall asleep to music and know your Unit will turn off by itself rather than play all night.

❑ You can only set the Sleep Timer when the Unit is on.



To set the SLEEP Timer, follow this procedure:

1. With the CA-D3S on and a source playing, press the SLEEP button.
The "SLEEP" indicator on the display will start blinking.



2. Set the length of time you want the source to play before shutting off.

❑ Each time you press this button while the "SLEEP" indicator is blinking, it changes the number of minutes shown on the display in this sequence:

→ **10** → **20** → **30** → **60** → **90** → **120** → Cancelled → (back to the beginning)

When the number of minutes you want shows on the display, just wait 5 seconds until the indicator stops blinking, and is lighted steadily.

The Unit is now set to turn off after the number of minutes you set.

To Change the SLEEP Timer Setting
Press the SLEEP button until the number of minutes you want appears on the display.
To Cancel the SLEEP Timer Setting
Press the SLEEP button until the "SLEEP" indicator goes off on the display.
Turning off the Unit also cancels the SLEEP Timer.

Timer Priority

Since each timer can be set independently, you may wonder what happens if the settings overlap. Here are the priorities for each timer:

❑ The Recording Timer always has priority. This means that:

- If the Recording Timer start time comes while the Sleep Timer is active, the Sleep Timer setting is cancelled and the Recording Timer is activated. The power is automatically turned off when the recording Timer end time is passed.
- Even if the Sleep Timer is set while the Recording Timer is recording, the power is turned off when the Recording Timer is finished.

English English

Care And Maintenance

Compact Discs

Handle your compact discs, cassette tapes, and Cassette Deck carefully, and they will last a long time.

- Remove the CD from the case by holding it at the edges while pressing the center hole lightly.
- Do not touch the shiny surface of the CD, or bend the CD.

- Put the CD back in its case after use to prevent warping.
- Be careful not to scratch the surface of the CD when placing it back in the case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.

- A dirty CD may not play correctly. If a CD does become dirty, wipe it with a soft cloth in a straight line, from center to edge.

CAUTION: Do not use any solvent (for example, conventional record cleaner, spray thinner, benzine, etc.) to clean a CD.

Moisture Condensation

Moisture may condense on the lens inside the Unit in the following cases:

- After starting the heating in the room.
- In a damp room.
- If the unit is brought directly from a cold to a warm place.

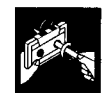
Should this occur, the Unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

General Notes

In general, you will have the best performance by keeping your tapes, CDs, and the mechanism clean.

- Store tapes and CDs in their cases, and keep them in cabinets or on shelves.
- Keep the Cassette Deck's cassette holders and the CD trays closed when not in use.

Cassette Tapes



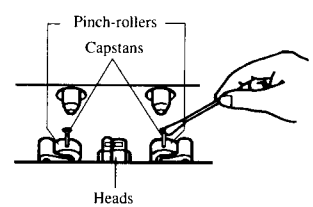
- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.

- Do not touch the tape surface.

- Do not store the tape:
  - In dusty places
  - In direct sunlight or heat
  - In moist areas
  - On a TV or speaker
  - Near a magnet

Cassette Deck

- If the heads, capstans, and pinch-rollers of the Cassette Deck become dirty, the following will occur:
  - Loss of sound quality
  - Discontinuous sound
  - Fading
  - Incomplete erasure
  - Difficulty recording
- Clean the heads, capstans, and pinch-rollers using a cotton swab moistened with alcohol.



- If the heads become magnetized, the Unit will produce noise or lose high frequencies.
- To demagnetize the heads, turn off the Unit, and use a head demagnetizer (available at electronics and record shops).

(No. 20560) 1-17

Troubleshooting

- If you are having a problem with your CA-D3S, check this list for a possible solution before calling for service.
- If you cannot solve the problem from the hints given here, or the Unit has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Possible Cause	Action
No sound is heard.	Connections are incorrect, or loose.	Check all connections and make corrections. (See pages 4 - 6.)
Unable to record.	Cassette record protect tabs are removed.	Cover holes on back edge of cassette with tape.
Poor radio reception	• The antenna is disconnected. • The AM Loop Antenna is too close to the Unit. • The FM Wire Antenna is not properly extended and positioned.	• Re-connect the antenna securely. • Change the position and direction of the AM Loop Antenna. • Extend FM Wire Antenna to the best reception position.
The CD skips.	The CD is dirty or scratched.	Clean or replace the CD.
Unable to operate the Remote Control.	• The path between the Remote Control and the sensor on the Unit is blocked. • The batteries have lost their charge.	• Remove the obstruction. • Replace the batteries.
The CD tray cannot be opened.	The main AC power cord is not plugged in.	Plug in the AC power plug.
The CD does not play.	The CD is upside down.	Put the CD in with the label side up.
Operations are disabled.	The built-in microprocessor has malfunctioned due to external electrical interference.	Unplug the Unit then plug it back in.
The cassette holder cannot be opened.	During tape playing, the power cord was unplugged.	Plug in the power cord, press the POWER button, and then the EJECT button.

Specifications

Amplifier Section
Output Power (IEC 268-3/DIN) 29 watts per channel, min. RMS, both channels driven, into 6 ohms at 1 kHz with no more than 0.9% total harmonic distortion.
Input Sensitivity/Impedance (1 kHz)
AUX 300 mV/50 kohms

Cassette Deck Section
Frequency Response
Type II (CrO_2) : 30 - 16,000 Hz
Type I (NORMAL) : 30 - 15,000 Hz
Wow And Flutter 0.15% (WRMS)

CD Player Section
Dynamic Range 90 dB
Signal-To-Noise Ratio 90 dB
Wow And Flutter Unmeasurable

Tuner Section
FM Tuner
Tuning Range 87.5 - 108.0 MHz
AM Tuner
Tuning Range
MW 522 - 1,629 kHz
LW 144 - 288 kHz

Dimensions 245 x 281 x 353 mm (W/H/D)
(9-11/16 x 11-1/8 x 13-15/16 inches)
Mass 6.7 kg (14.8 lbs)

Accessories
AM (MW/LW) Loop Antenna (1)
Remote Control (1)
Batteries R6P (SUM-3)/AA (15F) (2)
FM Wire Antenna (1)

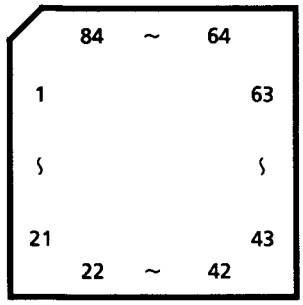
Power Specifications
Power Requirements AC 230 V ∿, 50 Hz
Power Consumption 105 watts
17 watts (in standby mode)

Design and specifications are subject to change without notice.

Description of major ICs

■ MN172412JSP(IC400) : Amp./ Tuner/Deck/CD& Display Controller

1. Terminal Layout



2. Key Matrix

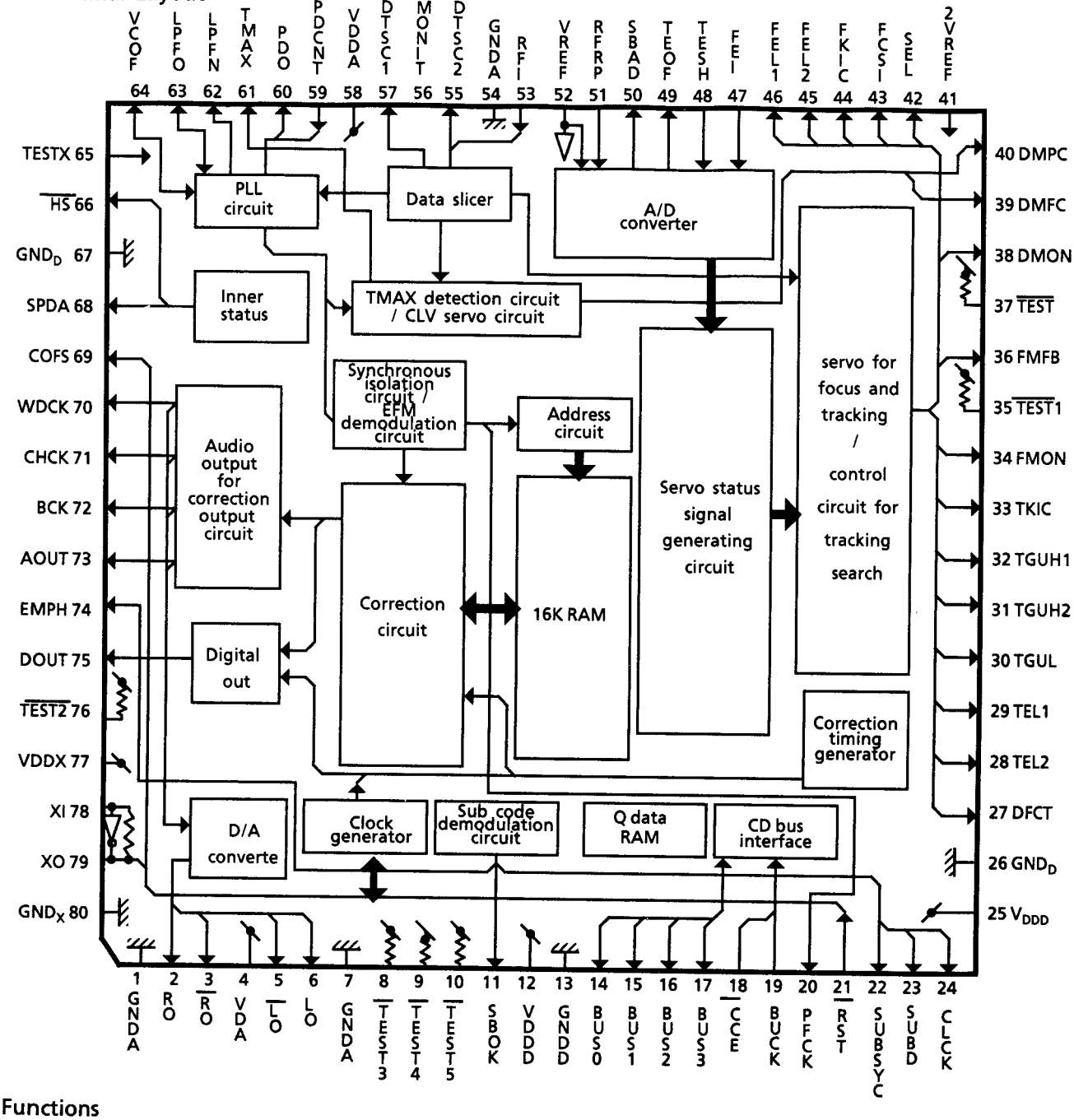
OUT \ IN	IN 1 (61pin)	IN 2 (62pin)	IN 3 (63pin)
11G (8pin)	--	SOUND MODE (S400)	--
12G (7pin)	ACTIVE BASS (S401)	KARAOKE/SLEEP (S402)	REPEAT (S403)
13G (6pin)	⏏ (S404)	EDIT (S405)	PROGRAM (S406)
14G (5pin)	DECK A/B (S407)	REVERSE (S408)	DOLBY (S409)
15G (4pin)	DUBBING (S410)	REC (S411)	CD REC (S412)
16G (3pin)	◀◀ (S413)	▶▶ (S414)	CLOCK TIMER (S415)
17G (2pin)	⏮ (S416)	STOP/CLEAR (S417)	⏭ (S418)
18G (1pin)	FM/AM (S419)	CD (S420)	SET (S421)
1G (77pin)	POWER (S422)	AUX (S423)	TAPE (S424)

3.Pin Functions

PIN NO.	Symbol	I/O	Function	PIN NO.	Symbol	I/O	Function
1~10	9G~18G	O	FL grid control signal	50	$\overline{\text{OPEN.SW}}$	I	Tray open "L"
11~22	S1~S12	O	FL segment control signal	51	$\overline{\text{CLOSE.SW}}$	I	Tray close "L"
23	$-V_{PP}$	--	Power supply	52	BUS.0	I/O	CD bus command / data I/O
24~27	S13~S16	O	FL segment control signal	53	BUS.1	I/O	CD bus command / data I/O
28	SCK	O	Clock to IC901,IC902	54	BUS.2	I/O	CD bus command / data I/O
29	STB	O	Strbe signal to IC901,IC902	55	BUS.3	I/O	CD bus command / data I/O
30	$\overline{\text{G}}$	O	G control signal to IC901,IC902	56	CD.XRST	I	CD rest switch signal input
31	SOUT	O	Data to IC901	57	CD.BUCK	O	CD bus clock output
32	$\overline{\text{PSWA}}$	I	Deck A play sw input	58	CD CCE	O	CD bus data chip enable
33	APLS	I	Pulse signal input from hall IC	59	$\overline{\text{CD.REST}}$	I	CD rest switch signal input
34	$\overline{\text{PSWB}}$	I	Deck B play sw input	60	JOG1	I	Jog signal input
35	BPLS	I	Pulse signal input from hall IC	61~63	K1~K3	I	Key matrix input
36	$\overline{\text{MSIN}}$	I	Music scan signal input	64	$\overline{\text{CD}}$	O	CD indicator control signal
37	S.MUTE	O	Source mute signal output	65	$\overline{\text{TUNER}}$	O	TUNER indicator control signal
38	SPK	O	Speaker relay control signal output	66	$\overline{\text{DECK}}$	O	DECK indicator control signal
39	$\overline{\text{PAT}}$	I	Protector control signal input	67	$\overline{\text{AUX}}$	O	AUX indicator control signal
40	TU.CE	O	Chip enable signal output for IC121	68	RESET	I	Reset signal input
41	TU.CLK	O	Clock output for IC121	69	X1	--	Connected to ground
42	IF.DATA	I	IF data input to IC121	70	X2	--	Non connection
43	TU.DATA	O	Data output for IC121	71	V_{SS}	--	Connected to ground
44	$\overline{\text{RMOUT}}$	O	REMOTE indicator control signal	72	OSC2	--	Oscillation terminal
45	SCLK	O	Clock to IC801	73	OSC1	--	Oscillation terminal
46	JOG2	I	Jog signal input	74	V_{DD}	--	Power supply
47	S.DATA	O	Source data to IC801	75	STANDBY	O	STANDBY indicator control signal
48	$\overline{\text{RMIN}}$	I	Remote signal input	76	SET	O	SET/DEMO indicator control signal
49	$\overline{\text{INH}}$	I	Inhibit signal input	77~64	1G~8G	O	FL grid control signal

■ TC9284BF(IC601) : 1 Chip Processor (1 Bit DAC)

1. Terminal Layout



2. Pin Functions

Pin No.	Symbol	I/O	Function	Pin No.	Symbol	/O	Function
1	GND_A	--	Analog ground pin for R-CH D/A conversion.	11	SBOK	O	CRCC judgment result output pin for sub code Q data. It becomes "H" when the result is OK.
2	RO	O	Output pin for R-CH data positive phase.	12	V_{DDD}	--	Digital Power supply pin
3	/RO	O	Output pin for R-CH data negative phase.	13	GND_D	--	Digital ground pin.
4	V_{DA}	--	Power supply for DAC	14~17	BUS0 ~ BUS3	I/O	Data in/output pin for microprocessor interface.
5	/LO	O	Output pin for L-CH data negative phase.	18	/CCE	I	Chip enable signal pin for microcomputer interface. BUS 3~0 become active when it is "L".
6	LO	O	Output pin for L-CH data positive phase.	19	BUCK	I	Clock input pin for microprocessor interface.
7	GND_A	--	Analog ground pin for L-CH D/A conversion.	20	PFCK	O	Output pin for playback flame synch signal.
8~10	TEST	--	+5V	21	/RST	I	Reset signal input pin. It becomes "L" when it is reset.

2. Pin Functions

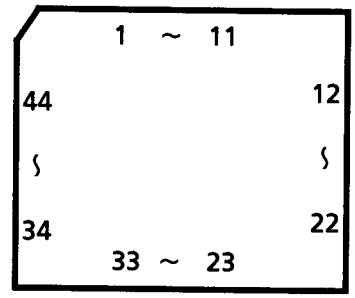
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
22	SUBSYC	O	Output pin for subcode block synch. It becomes "H" at S1 spot when the subcode synch is detected.	53	RFI	I	RF signal input pin.
23	SUBD	O	Sub code P~W data output	54	GND_A	--	Analog ground pin.
24	CLCK	O	Clock input pin for Sub code P~W data	55	DTSC2	O	EFM signal negative phase output pin for data slice control.
25	V_{DDD}	--	Digital Power supply pin	56	MONIT	O	Output pin for internal signal monitor. The commands can select EFMO, PLCK and LOCK signals. Muting is possible.
26	GND_D	--	Digital ground pin.	57	DTSC1	O	EFM signal positive phase output pin for data slice control.
27	DFCT	O	Output pin for defect detecting signal. It is generally "Hiz". It becomes "V_{REF}" when defect is detected.	58	V_{DDA}	--	Analog power supply pin.
28,29	TEL1,2	O	Analog switch output pin to adjust tracking gain. It is "VREF" or "Hiz".	59	PDCNT	I	PDO output control pin. PDO pin is fixed to "Hiz" forcefully when it is "L" and it becomes general output in "H".
30	TGUL	O	Analog switch output pin to increase tracking servo gain. Polarity at the increased gain and general playback can be selected by the command.	60	PDO	O	Phase error signal output pin between EFM signal and PLCK signal.
31,32	TGUH1, 2	O	Analog switch output pin to increase tracking servo gain. It is generally "V_{REF}" and changes to "Hiz" when the gain is increased. TGUH1 is used for general playback and for double speed playback TGUH2 is used.	61	TMAX	O	TMAX detecting result output pin.
33	TKIC	O	Pin to output tracking actuator kick signal. It is used to kick when NKICx, CKICx or tracking gain is adjusted. It kicks toward exterior when it is "$2V_{REF}$" and changed to interior in case of "L". Generally, it is "Hiz".	62	LPON	I	Amp. negative phase input pin for low-pass filter.
34	FMON	O	Analog switch output pin to set feed servo on and off. It becomes "Hiz" when it is on and changes to "VREF" in case of the off.	63	LPOF	O	Amp. output pin for low-pass filter.
35	TEST1	I	Test pin. Generally, it is "H" or open.	64	VCOF	O	Filter pin for VCO.
36	FMFB	O	Control signal output pin to rotate feed motor forward or backward. The motor rotates to exterior when it is "$2V_{REF}$" and to interior in case of "L". Generally, it is "Hiz".	65	TESTX	I	Test pin. Generally, it is "H" or open.
37	TEST	I	Test pin. Generally, it is "H" or open.	66	HS	O	Output pin for double speed mode. It becomes "H" for general playback and changes to "L" in case of double speed playback.
38	DMON	O	Analog switch output pin to switch the gain at disc motor's drive circuit. It becomes "Hiz" when CLV servo is off. If it is on, "Hiz/V_{REF}" can be selected with the command.	67	GND_D	--	Digital ground pin.
39	DMFC	O	AFC signal output pin for disc motor CLV servo.	68	SPDA	O	Output pin for processor status signal.
40	DMPC	O	APC signal output pin for disc motor CLV servo.	69	COFS	O	Output pin for correction flame clock. (7.35kHz)
41	$2V_{REF}$	--	Analog reference power supply pin. (Double voltage of "V_{REF}".)	70	WDCK	O	Output pin for word clock(88.2kHz). SUBQ, BUFOV and IPF signals can be selected with microprocessor command.
42	SEL	O	Output pin for servo mode indication signal. It controls on/off for laser diode and focus servo.	71	CHCK	O	Output pin for channel clock(44.1kHz). It becomes "L" for L-CH and changes to "H" for R-CH.
43	FCSI	O	Focus actuator drive signal output pin in focus search mode. It is generally "Hiz". The lens leaves from the disc in "VDDA" and it closes the disc in "L".	72	BCK	O	Output pin for bit clock(1.4112MHz).
44	FKIC	O	Focus actuator drive signal output pin in focus gain adjustment mode. It is generally "Hiz". The lens leaves from the disc in "VDDA" and it closes the disc in "L".	73	AOUT	O	Audio data output pin.
45,46	FEL1,2	O	Analog switch output pin for focus gain adjustment. "V_{REF}" or "Hiz".	74	EMPH	O	Pin to output signal which indicates emphasis' on/off. It becomes "H" when the emphasis is on and changes to "L" in case of its off.
47	FEI	I	Focus error signal input pin.	75	DOUT	O	Digital output pin
48	TESH	I	Analog switch input pin to hold tracking error signal sample.	76	TEST2	I	Test pin. Generally, it is "H" or open.
49	TEOF	O	Analog switch output pin to set on and off the tracking servo function. It is "V_{REF}" when the tracking servo is OFF.	77	V_{DDX}	--	Oscillation Power supply pin
50	SBAD	I	Sub beam adding signal input pin.	78	XI	I	Oscillation terminal
51	RFRP	I	RF ripple signal input pin.	79	XO	O	Oscillation terminal
52	V_{REF}	--	Analog reference power supply pin.	80	GND_X	--	Oscillation ground pin.

■ TA8191F (IC501) : Focus Tracking Servo LSI

1. Description

- RF amp,Focus error amp,and Tracking error amp
- Forcus and Tracking servo amp
- Phase compensation amp and LPF amp

2. Terminal layout

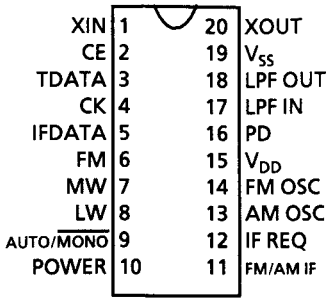


3. Pin Functions

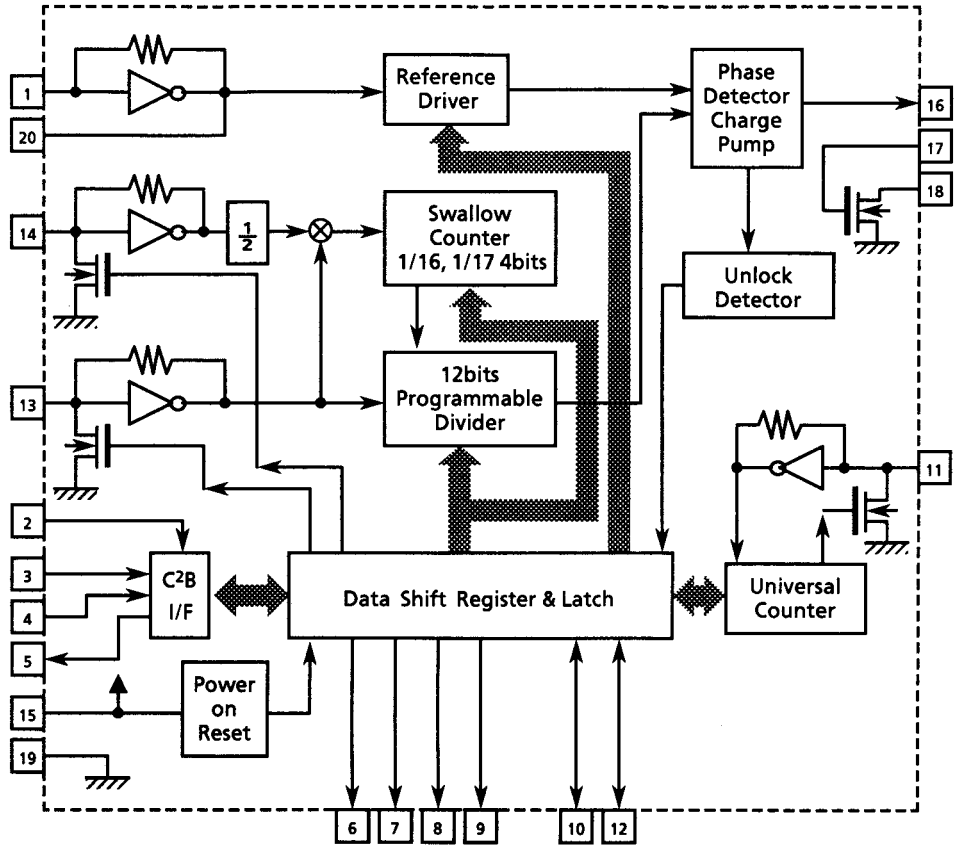
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	TPO	O	Sub beam I-V amp (TP AMP) output	23	V_{CC}	--	+5V
2	TPI	I	Sub beam I-V amp (TP AMP) input	24	DMEP	I	Disc motor amp (DM AMP) positive phase input
3	TNI	I	Sub beam I-V amp (TN AMP) input	25	DMEN	I	Disc motor amp (DM AMP) negative phase input
4	FNI	I	Main beam I-V amp (FN AMP) input	26	DMEO	O	Disc motor amp (DM AMP) output
5	FPI	I	Main beam I-V amp (FP AMP) input	27	DMPO	O	Disc motor driving amp (DM AMP) output
6	LDO	O	Laser diode amp (LD AMP) output	28	PVR	I	Driving amp reference voltage input
7	MDI	I	Monitor photo amp (MD AMP) input	29	FMPO	O	Feed motor driving amp (FMP AMP) output
8	RFN	I	RF amp (RF AMP) negative phase input	30	FMEO	O	Feed motor amp (FM AMP) output
9	RFO	O	RF amp (RF AMP) output	31	FMEP	I	Feed motor amp (FM AMP) negative phase input
10	RFI	I	RF ripple signal generating circuit	32	TS2O	I	Feed motor amp (FM AMP) positive phase input
11	VREF	O	Reference voltage supply (+2.1V)output	33	FAPO	O	Focus actuator driving amp (FAP AMP) output
12	RFRP	O	RF ripple signal output	34	2VRO	O	2VREF amp (2VREF AMP) output
13	SBAD	O	Defects detection signal output	35	2VRP	I	2VREF amp (2VREF AMP) positive phase input
14	FEB	I	Focus error balance adjusting input	36	2VRN	I	2VREF amp (2VREF AMP) negative phase input
15	FEO	O	Focus error amp (FE AMP) output	37	TS2O	O	Tracking servo amp (TS2 AMP) output
16	SEL	I	Analog switch control signal input	38	TS2N	I	Tracking servo amp (TS2 AMP) negative phase input
17	VEE	--	GND	39	TS2P	I	Tracking servo amp (TS2 AMP) positive phase input
18	FSN	I	Focus output amp (FS AMP) negative phase input	40	TS1O	O	Tracking servo amp (TS1 AMP) output
19	FSO	O	Focus output amp (FS AMP) output	41	TS1N	I	Tracking servo amp (TS1 AMP) negative phase input
20	COSC	O	Focus search signal generating capacitor connecting	42	TS1P	I	Tracking servo amp (TS1 AMP) positive phase input
21	OSCI	I	Focus search signal generating built-in current source control input	43	TSO	O	Tracking output amp (TS AMP) output
22	GND	--	GND	44	TSN	I	Tracking output amp (TS AMP) negative phase input

■ LC72131M (IC121) : PLL Synthesizer

1. Terminal Layout



2. Block Diagram



3. Pin Functions

Pin No.	Symbol	I/O	Functions	Pin No.	Symbol	I/O	Functions
1	X in	I	Crystal oscillator (7.2MHz).	11	FM/AM IF	I	Universal counter input
2	CE	I	Fix the chip enable to "H" when inputting (DI) and outputting (DO) the serial data.	12	IF REQ	O	Output the "IF-signal request" to IC102
3	TDATA	I	Receive the control data from the controller (IC201).	13	AM IN	I	Input the local oscillator signal of AM.
4	CK	I	This clock is used to synchronize data when transmitting the data of DI and DO.	14	FM IN	I	Input the local oscillator signal of FM.
5	IFDATA	O	Transmit the data from LC72131M to the controller which is synchronized with CK.	15	V_{DD}	--	This is a terminal of power supply.
6	FM	O	It is "L" on FM mode.	16	PD	O	PLL charge pump output : When the local oscillator signal frequency is higher than the reference frequency high level signals will output. When it is lower than the reference frequency, low level signals will output. When it is same as reference frequency signals, it will be floating.
7	MW	O	It is "L" on MW mode.	17	LPF IN	I	Transistor used for the PLL active low-pass filterr
8	LW	O	It is "L" on LW mode.	18	LPF OUT	O	Transistor used for the PLL active low-pass filterr
9	AUTO/ MONO	O	It is "L" on monaural, "H" on auto.	19	V_{SS}	--	Connected to GND
10	POWER	O	Regulator control singal P ON "H", STANDBY "L"	20	X out	O	Crystal oscillator (7.2MHz).

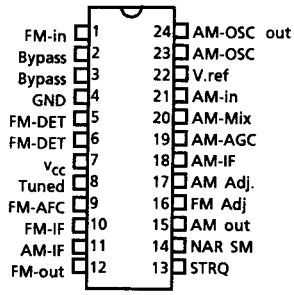
■ LA1266A (IC104) : FM AM IF AMP & detector

1. The main function descriptions

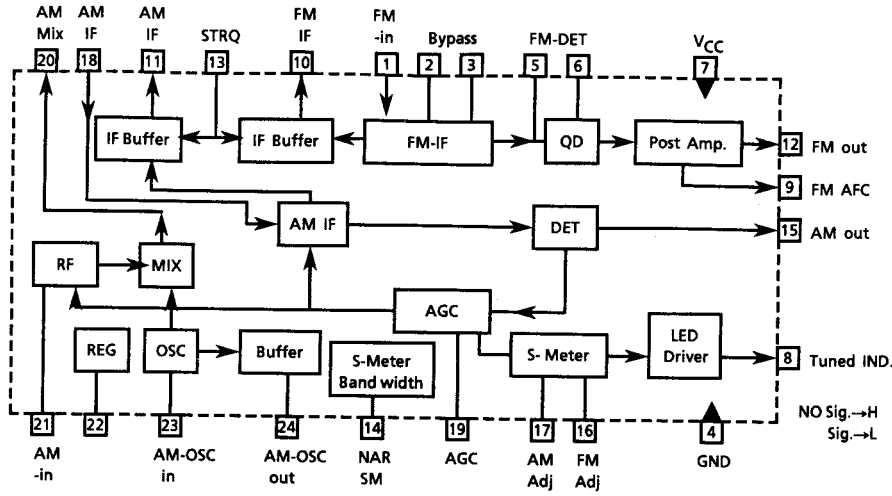
(1) Amplify and detect of FM intermodulation frequencies.

(2) It has local oscillator and mixer for AM, and amplify the AM-IF signal.

2. Top View



3. Block Diagram



4. Pin Function Description

Pin No.	Symbol	I/O	Functions and Operations
1	FM in	I	This is an input terminal of FM IF Signal.
2, 3	Bypass	--	Bypass of FM IF Amp.
4	GND	--	This is the device ground terminal.
5, 6	FM DET	--	FM detect transformer.
7	V_{CC}	--	This is the power supply terminal.
8	Tuned	O	When the set is tuning, this terminal become "L".
9	FM AFC	O	This is an output terminal of voltage for FM - AFC.
10	FM IF out	O	When the IF REQ signal of IC251(LC7218) applies to pin13, the signal of FM IF outputs.
11	AM IF out	O	When the IF REQ signal of IC251(LC7218) applies to pin13, the signal of AM IF outputs.
12	FM out	O	FM detection output.
13	STRQ	I	The IF-signals come out from pin10 (FM-IF) or pin11 (AM-IF) while this terminal goes to "High".
14	NAR SM	--	Control the Band-width of AM signal meter.
15	AM out	O	AM detection output.
16	FM Adj	--	For adjust the stop level (or mute level) of FM.
17	AM Adj	--	For adjust the stop level (or mute level) of AM.
18	AM-IF	I	Input of AM IF Signal.
19	AM-AGC	I	This is an AGC voltage Input terminal for AM.
20	AM-MIX	O	This is an output terminal for AM mixer.
21	AM-IN	I	This is an input terminal for AM RF Signal.
22	V.REF	--	Control the Band-width of FM signal meter.
23	AM-OSC	--	This is a terminal of AM Local oscillation circuit.
24	AM-OSC out	O	AM Local Oscillation Signal output.

■ LA3401 (IC105) : FM MPX Detector

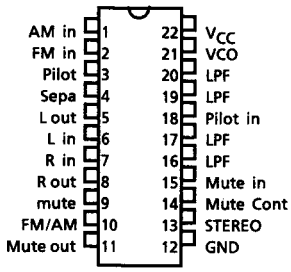
1. The main function descriptions

(1) Detect the FM Multiplex Signal (Stereo signal).

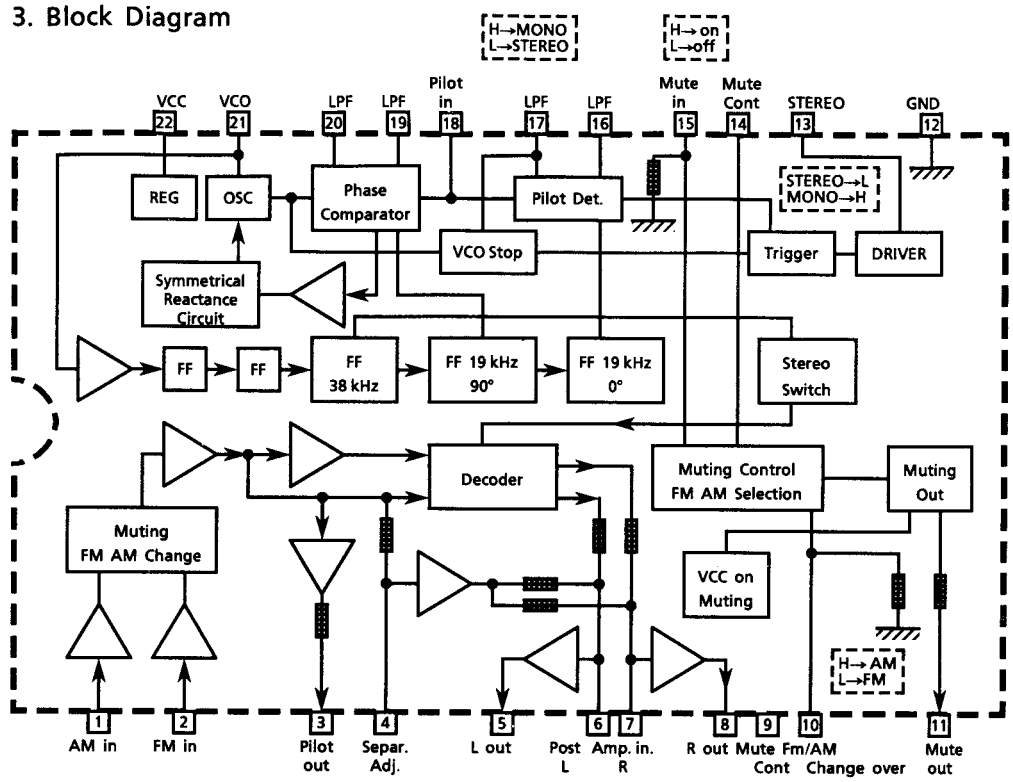
(2) When receiving FM Stereo Signal, it outputs the signal for indicator.

(3) AM / FM Audio Amplifier.

2. Terminal Layout



3. Block Diagram

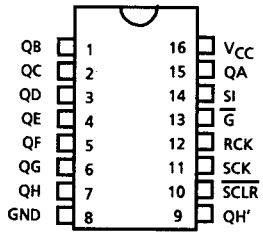


4. Pin Function Description

Pin No.	Symbol	I/O	Functions and Operations
1	AM in	I	This is an input terminal for AM detection signal.
2	FM in	I	This is an input terminal for FM detection signal.
3	Pilot out	O	Output of MPX pilot signal (Connect to Pin18).
4	Sepa. Adj.	--	Separation adjustment.
5	L. out	O	Left channel signal output.
6	L	O	Reversal output of Pin5.
7	R	O	Reversal output of Pin8.
8	R out	O	Right channel signal output
9	Mute Cont	--	The mute time is controlled by the connected capacitor when turning the power switch on.
10	FM / AM	I	Change over the FM / AM input. "H" : AM, "L" : FM
11	Mute out	--	Not use
12	GND	--	Ground terminal.
13	Stereo	O	Stereo indicator output. Stereo : "L", Mono : "H"
14	Mute Cont	--	The mute time is controlled by the connected capacitor when changing over the FM / AM .
15	Mute in	I	MutE signal input."H" : Mute on, "L" : Mute off.
16	LPF	--	Low pass filter of pilot detector.
17	LPF	--	While this terminal goes to "H", the VCO stop.
18	Pilot in	I	Pilot input.
19	LPF	--	Low-pass filter of PLL.
20	LPF	--	Low-pass filter of PLL.
21	VCO	I	Voltage controlled oscillator terminal.
22	V_{CC}	--	Power supply.

■TC74HC595AP(IC901,902) : 8-Bit Shift Register

1. Terminal Layout

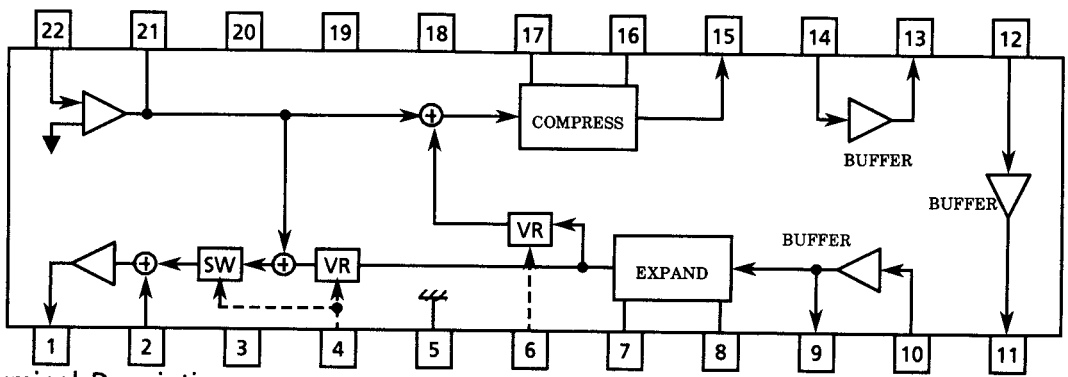


2. Function Table

Inputs					Functions
SI	SCK	SCLR	RCK	G	
X	X	X	X	H	Output (QA-QH) disable.
X	X	X	X	L	Output (QA-QH) enable.
X	X	L	X	X	Shift register is cleared.
L	↑	H	X	X	Condition of shift register in initial stage is "L". In the other stages, data from the former stage is stored.
H	↑	H	X	X	Condition of shift register in initial stage is "H". In the other stages, data from the former stage is stored.
X	↓	H	X	X	Shift register does not change.
X	X	X	↑	X	Shift register data is stored in the storage register.
X	X	X	↓	X	Storage register does not change.

X : Don't care

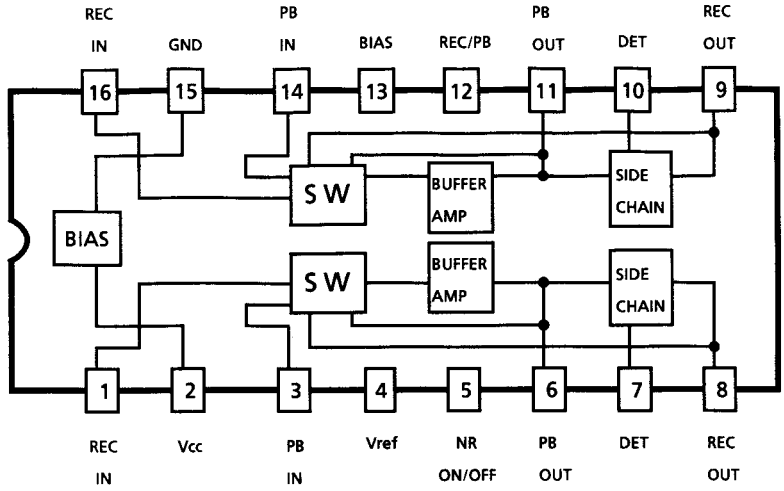
■ BA7725S (IC831) :Echo circuit (Use for U,UT,US,UB,UP only)



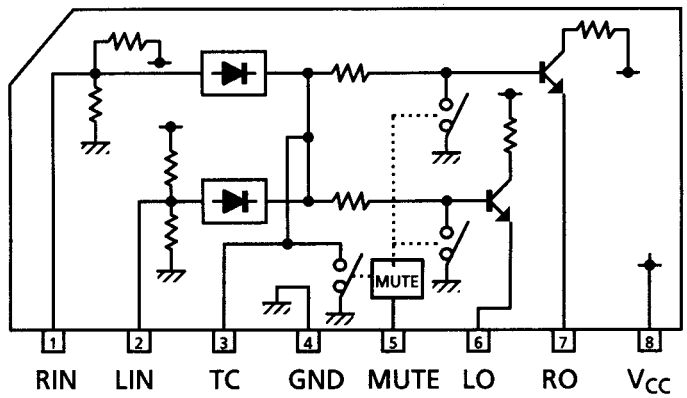
Terminal Description

Pin No.	Symbol	Function
1	LINE OUT	Line output
2	LINE IN	Line input
3	NC	Not used
4	ECHO LEV CTRL	Determines echo level. The echo circuit is off when 1 volt is added. The echo level varies according to the voltage from 2 volts to 9 volts.
5	GND	Analog GND
6	LOOP GAIN CTRL	Loop gain control terminal. The gain baries according to the voltage from 2 volts to 9 volts.
7	EXP DET	Detection terminal for expand circuit
8	EXP DET CT	Determines the atack and recovery time of expand circuit
9	EXP BF OUT	Buffer output (Expand circuit side)
10	EXP BF IN	Buffer input (Expand circuit side)
11	DLY BF OUT	Delay buffer output
12	DLY BF IN	Delay buffer input
13	CMP BF OUT	Buffer output (Compress circuit side)
14	CMP BF IN	Buffer input (Compress circuit side)
15	CMP OUT	Compress circuit output
16	CMP DET CT	Determines the atack and recovery time of compress circuit
17	CMP DET	Detection terminal for compress circuit
18	RIPPLE FITER	A capacitor is connected for ripple ellimination filter
19	V_{CC}	Power supply
20	NC	Not used
21	MIC AMP OUT	Mic amp output
22	MIC AMP IN	Mic amp input

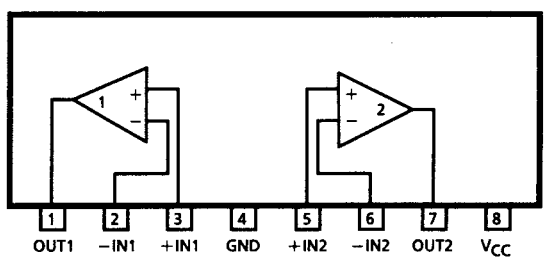
■ HA12136A (IC352) :Noise Reduction Amplifier



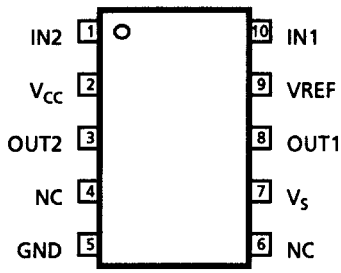
■ BA8221N (IC292) : ALC



■ BA15218N(IC301)



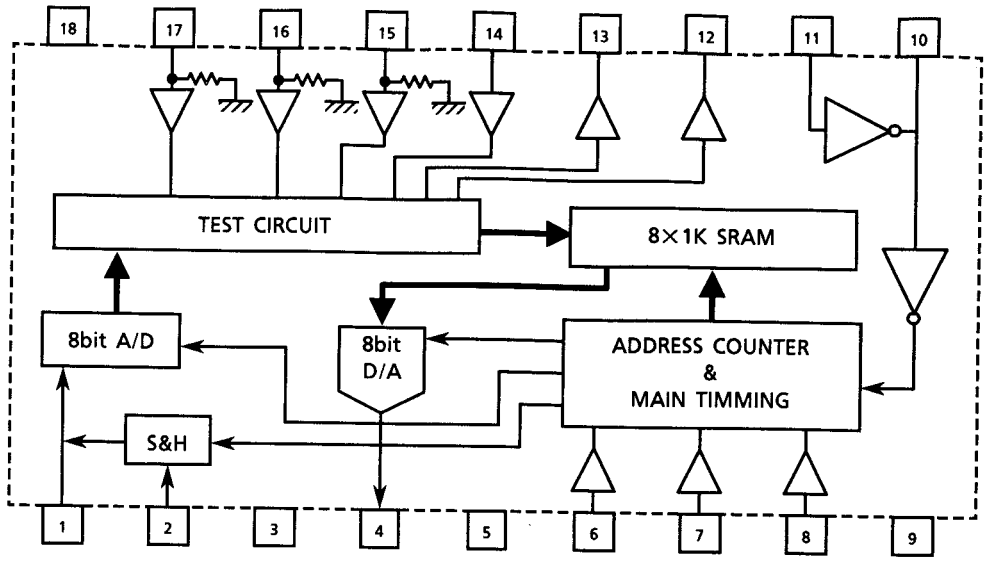
■ TA8409F (IC940) : DC Motor Driver



INPUT		OUTPUT		MOTOR
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	OPEN
0	1	L	H	CLOSE
1	1	L	L	--

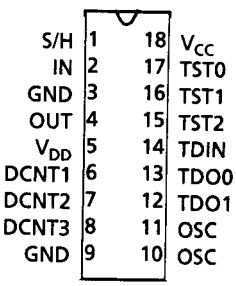
■ BU9251S (IC891) : Delay Circuit (For U,UB,UP,UT,US)

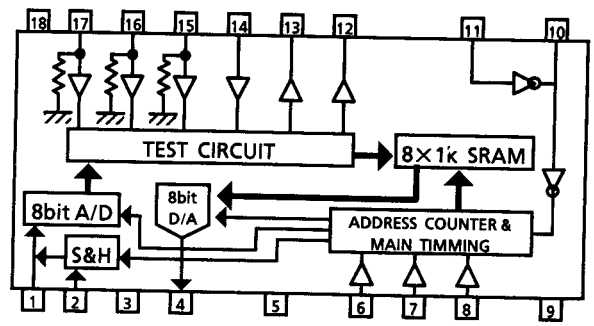
Block Diagram



Description

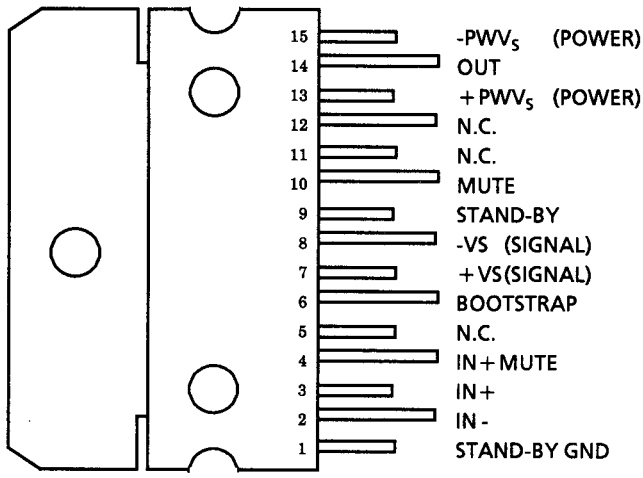
Pin No	Symbol	Function	Pin No	Symbol	Function
1	S&H	A capacitor is connected for sample & hold	10	OSC0	Oscillation terminal
2	AIN	Analog input	11	OSC1	Oscillation terminal
3	GND	GND	12	TDO1	Not used
4	AOUT	Analog output	13	TDO0	Not used
5	V_{DD}	Power supply	14	TDIN	Not used
6	DCNT0	Pull up (+5V)	15	TST2	Not used
7	DCNT1	Pull up (+5V)	16	TST1	Not used
8	DCNT2	Pull up (+5V)	17	TST0	Not used
9	GND	GND	18	V_{CC}	Power supply



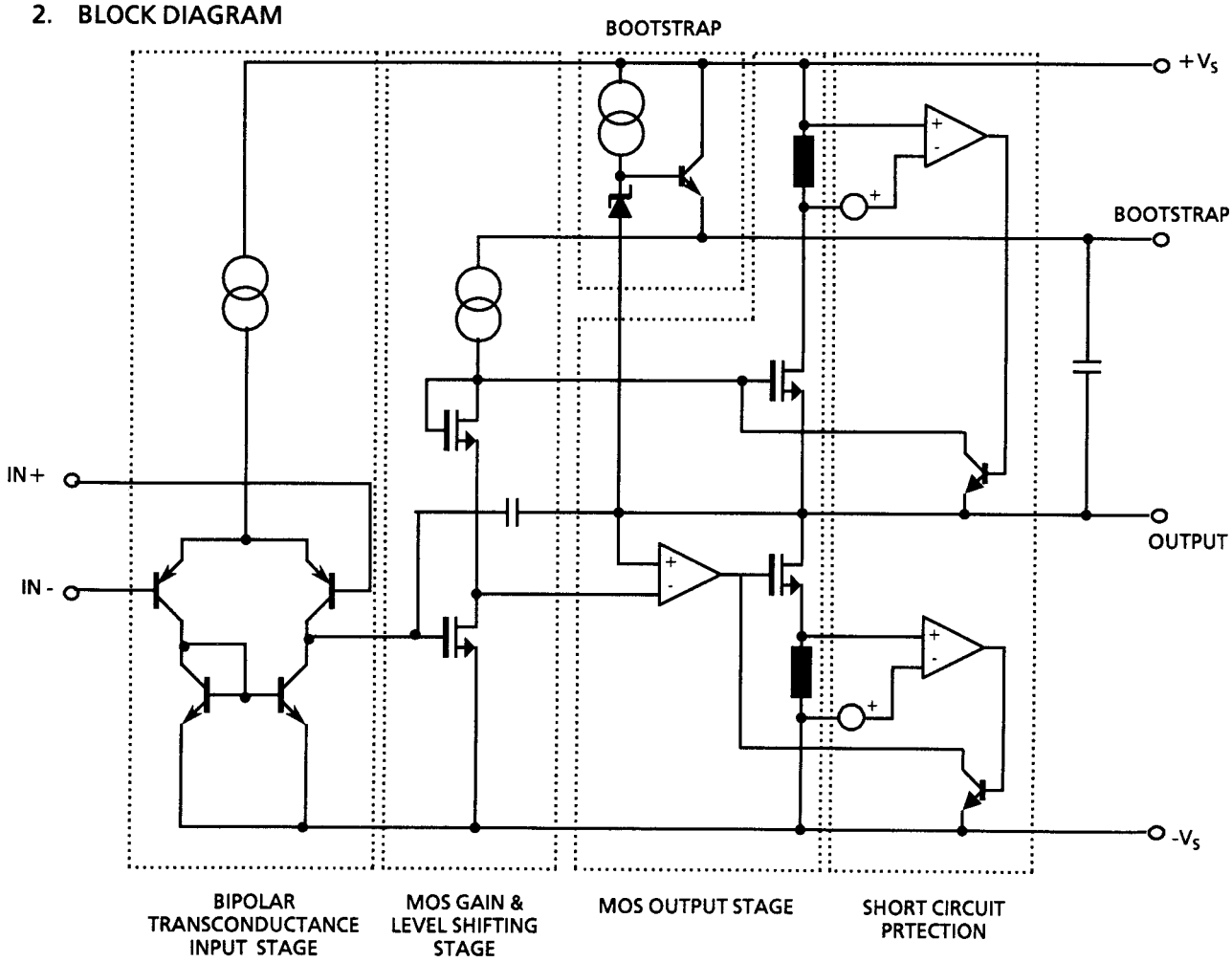


■ TDA7295(IC701,IC702):POWER AMP.

1. PIN CONNECTION

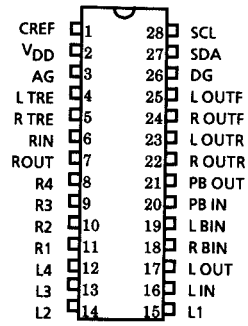


2. BLOCK DIAGRAM

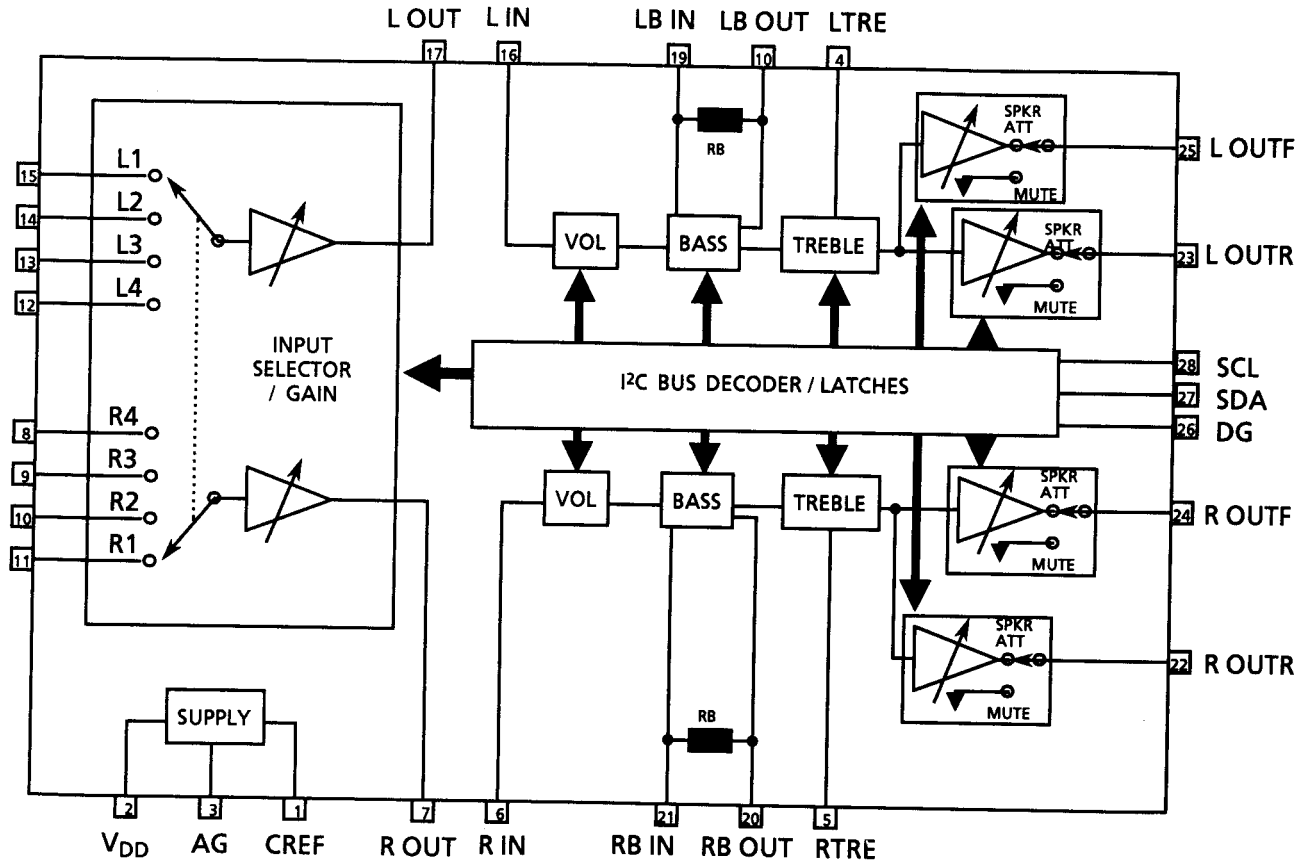


■ TDA7318(IC801):INPUT SELECTOR & VOL.

1. PIN CONNECTION



2. BLOCK DIAGARM



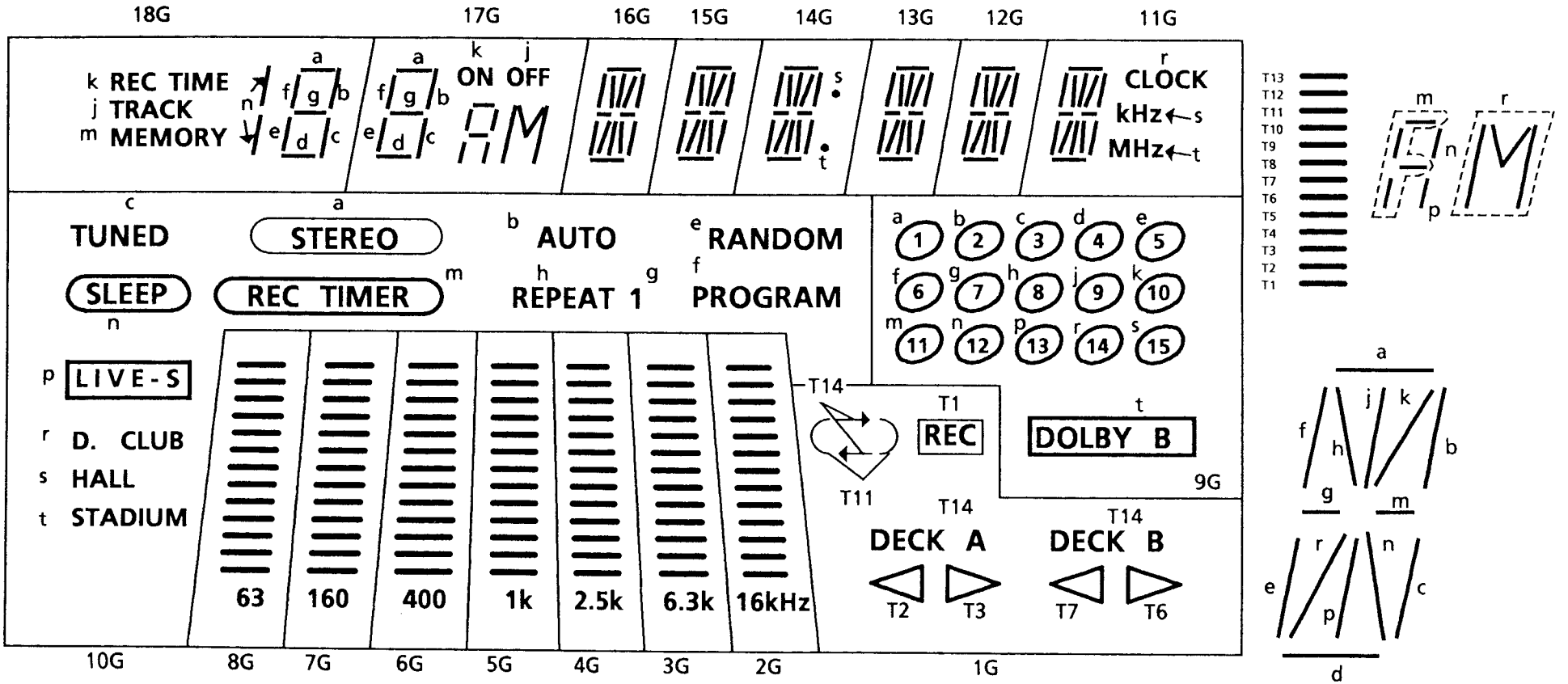
TERMINAL CONNECTION

(UPPER)

TERMINAL NO.	68	67	66	65	64	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35
ELECTRODE	F1	F1	F1	NP	P a	P b	NP	P c	P d	P e	P f	P g	P h	P j	P k	P m	P n	P p	P r	P s	P t	18G	17G	16G	15G	14G	13G	12G	11G	10G	9G	F2	F2	F2

(LOWER)

TERMINAL NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
ELECTRODE	F1	F1	F1	NP	NC	8G	7G	6G	5G	4G	3G	2G	1G	NP	NP	NP	P T14	P T1	P T2	P T3	P T4	P T5	P T6	P T7	P T8	P T9	P T10	P T11	P T12	P T13	NP	F2	F2	F2



Disassembly Procedures

1. Top cover removal

1-1 Remove 4 screws Ⓐ on the rear side and 2 screws Ⓐ on both sides of the cover.

1-2 Remove the cover.

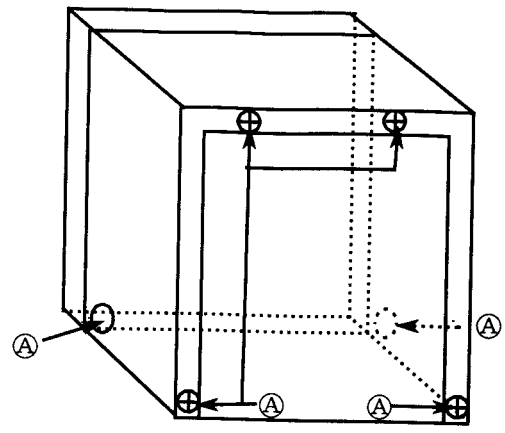


Fig.1

2. Rear panel removal

2-1 Remove the top cover.

2-2 Remove the 2 screw Ⓑ.

2-3 Remove the rear cover.

2-4 Remove the 10 screws Ⓑ (Universal Type 11 screws Ⓑ).

2-5 Remove the Rear panel.

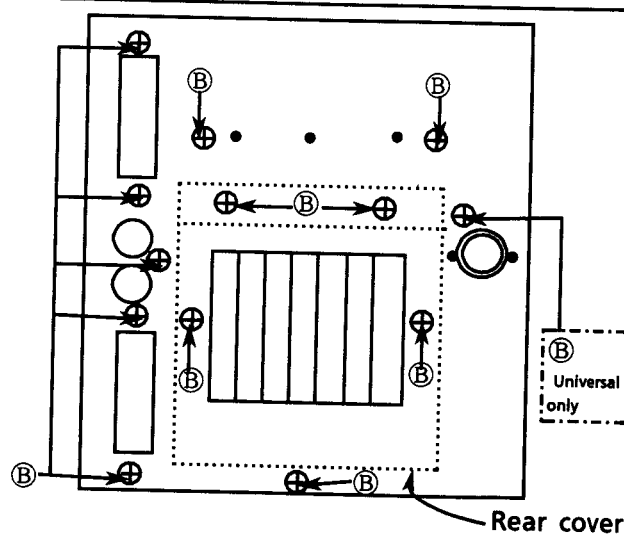


Fig.2

3. Front panel ass'y with same P.C.Board ass'y removal

3-1 Remove the top cover.

3-2 Remove the rear panel.

3-3 Remove the a screw Ⓒ holding tuner P.C.Board.

3-4 Remove the a screw Ⓑ on the CD support bracket.

3-5 Remove the a screw Ⓒ and 3 hooks fastening the assembly.

3-6 Remove it.

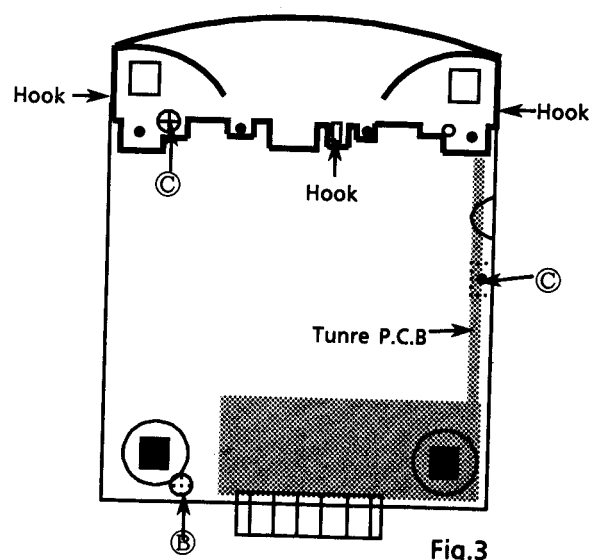


Fig.3

Ⓐ ..... SDSG3006M Ⓑ ..... E73272-003 Ⓒ SBSG3008Z

4. CD mechanism removal

4-1 Remove the top cover.

4-2 Switch on the power.
Press the OPEN/CLOSE switch to bring the tray forward and with the tray forward, switch off the power.

4-3 Remove the screw on the tray Ⓓ.

4-4 Pull the tray toward the front to move it.

4-5 Remove the 3 screws Ⓓ holding the CD mechanism.

4-6 Remove the 3 connectors (P011,P031,PIC.Connector).

4-7 Remove the CD mechanism.

Note: If power does not come on due to breakdown.
Remove the connector (P031) on the motor board.
Connect a DC power supply.
(P031 5Pin: +3V,1Pin:GND)
Turn the OPEN/CLOSE motor.

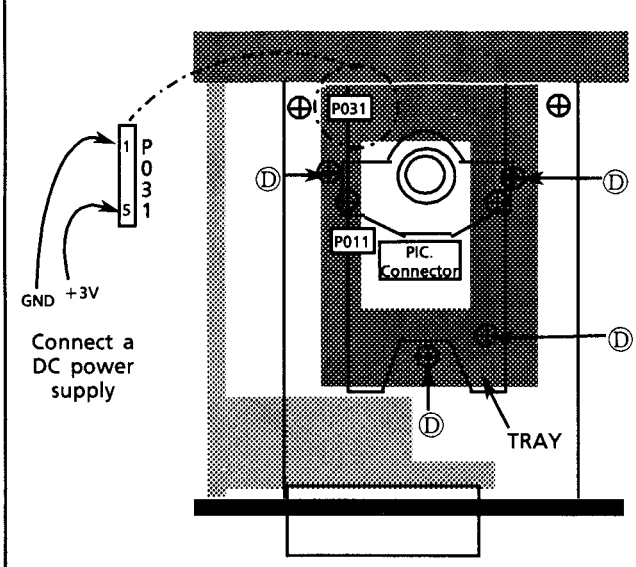


Fig.4

5. CD servo P.C.Board ASS'Y removal

5-1 Remove the top cover.

5-2 Remove the Rear panel.

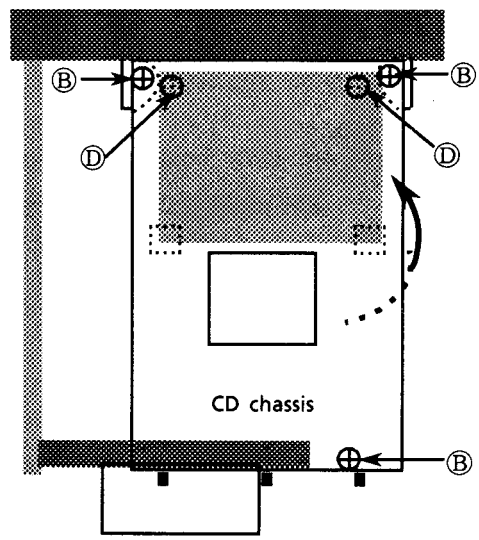
5-3 Remove the CD mechanism.

5-4 Remove the 3 screws Ⓑ holding the CD mechanism bracket.

5-5 Move up the CD chassis.

5-6 Remove the 2 screws Ⓓ holding the CD servo P.C.Board.

5-7 Disconnected the 2 connectors (CN503,CN601).



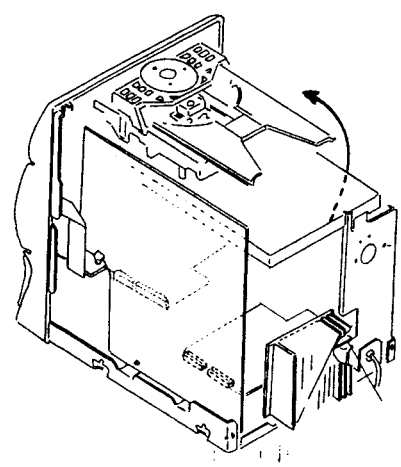


Fig.5

Ⓑ ..... E73273-003 Ⓓ SBSF3008Z

6. Tuner P.C.Board with Power Amp.P.C.Bord removal

6-1 Remove the top cover.

6-2 Remove the Rear panel.

6-3 Remove the screw Ⓒ holding the tuner P.C.Bord with Power AMP. P.C.Board.

6-4 Remove the fastener Ⓔ.

6-5 Remove the 2 connectors (J803,J804).

6-6 Disconnected the 4 connectors (J001,J702,J801,BC410).

6-7 Remove it.

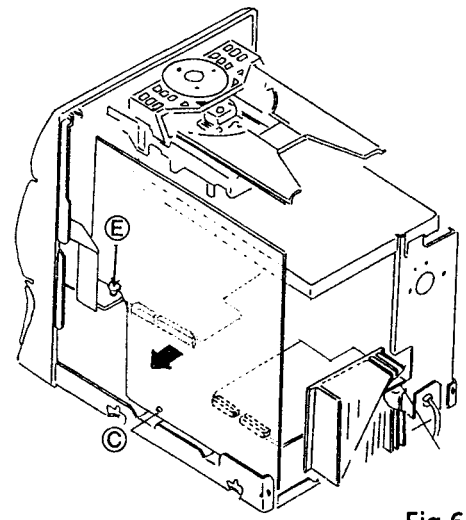


Fig.6

7. Front P.C.Board removal

7-1 Remove the top cover and the Rear panel.

7-2 Remove the main volume and mic. volume knobs.And remove the nut main volume.
(Mic. volume knob use only universal type)

7-3 Remove the tray.

7-4 Remove the CD chassis with the CD mechanism.

7-5 Remove the 4 screws Ⓕ holding the bracket.

7-6 Remove the 11 screws Ⓕ holding the front P.C.Board.

7-7 Remove it.

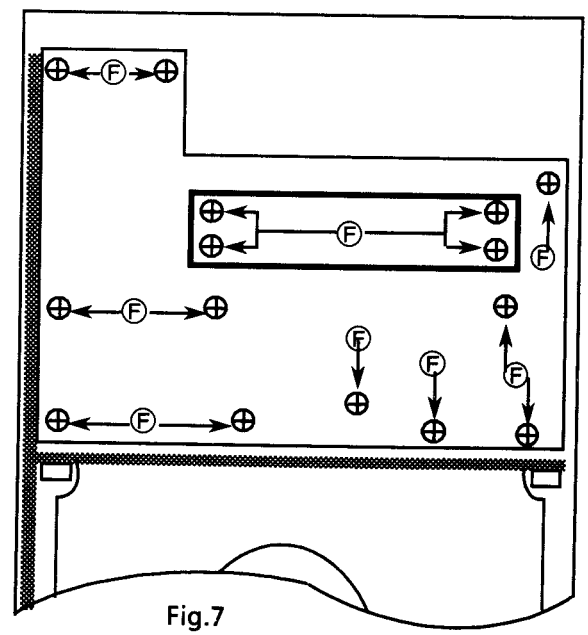


Fig.7

8. Deck mechanism control P.C.Bord removal

8-1 Remove the top cover.

8-2 Remove the Rear panel.

8-3 Remove the tray.

8-4 Remove the CD chassis with CD mechanism.

8-5 Remove the tuner P.C.Bord.

8-6 Remove the 4 screws Ⓖ holding the deck mechanism control P.C.Board.

8-7 Move up the deck mechanism control P.C.Bord.

8-8 Remove it.

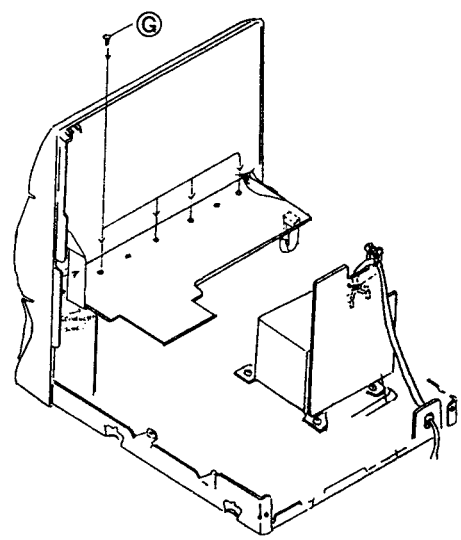


Fig.8

Ⓑ .... E73273-003 Ⓒ .... SBSG3008Z Ⓕ .... SDSF2608Z Ⓖ SBST2604Z

9. Front panel ass'y with deck mech. ass'y removal

9-1 Remove the top cover.

9-2 Remove the Rear panel.

9-3 Remove the tray.

9-4 Remove the CD mechanism bracket with CD mechanism.

9-5 Remove the tuner P.C.Bord.

9-6 Remove the a screw Ⓒ holding the front panel ass'y.

9-7 Remove the 3 hooks Ⓗ holding the front panel ass'y.

9-8 Remove it.

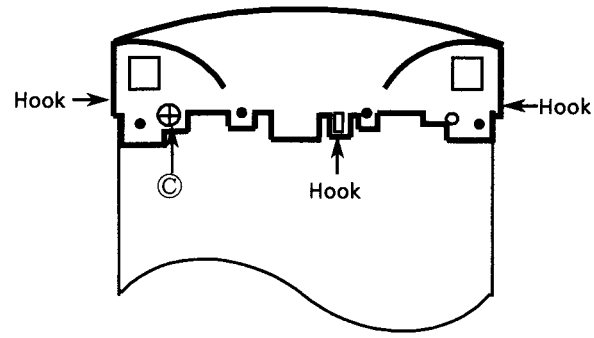


Fig.9

10. Deck mech. ass'y removal

10-1 Remove the top cover.

10-2 Remove the Rear panel.

10-3 Remove the tray.

10-4 Remove the CD chassis with CD mechanism.

10-5 Remove the tuner P.C.Bord.

10-6 Remove the front panel ass'y.

10-7 Remove the 8 screws(Ⓓ& Ⓘ) holding deck mechanism ass'y.

10-8 Disconnect the connector (J400).

10-9 Remove it.

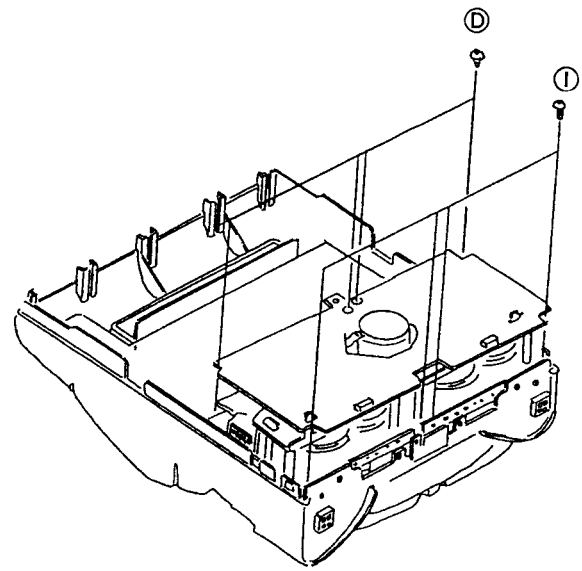


Fig.10

11. Deck AMP. P.C.B ass'y removal

11-1 Remove the top cover.

11-2 Remove the Rear panel.

11-3 Remove the tray.

11-4 Remove the CD chassis with CD mechanism.

11-5 Remove the tuner P.C.Board.

11-6 Remove the front panel ass'y.

11-7 Remove the deck mechanism ass'y.

11-8 Remove the 4 screws Ⓖ holding deck control P.C.Board. And move up the control P.C.Board.
Disconnected the 2 connectors(JA400,J411).

11-9 Remove the 2 screws Ⓒ holding deck amp. P.C.Board.

10-10 Remove it.

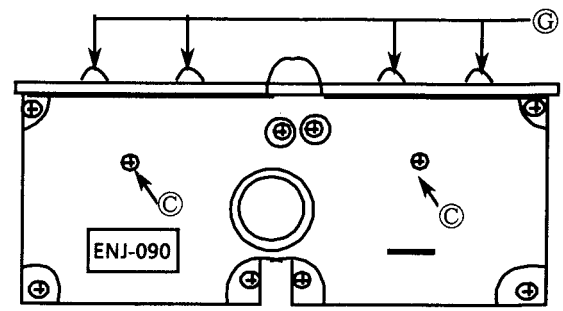


Fig.11

Ⓒ .... SBSG3008Z Ⓓ .... SBSF3008Z Ⓘ SBST3006Z

12. Damper removal

12-1 Remove the cassette mechanism.

12-2 Remove the spring holding the cassette holder or open the cassette door.

12-3 Press the hook which secures the damper to remove the damper.(See the arrow shown in the figure below)

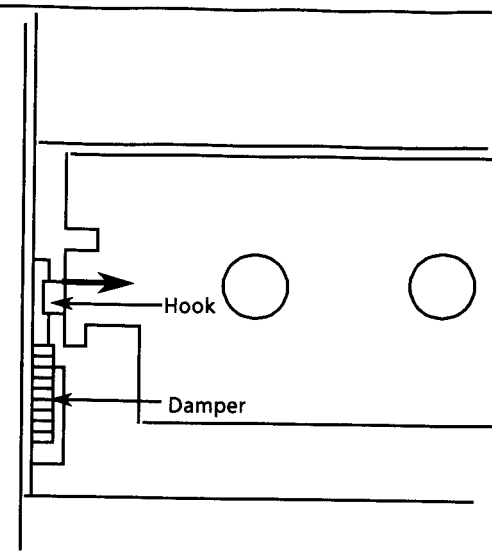


Fig 12 Door damper view

13. Cassette holder removal

13-1 Remove the Cassette mechanism assembly.

13-2 Remove the damper and spring holding the cassette holder.

13-3 Remove Cassette holder .

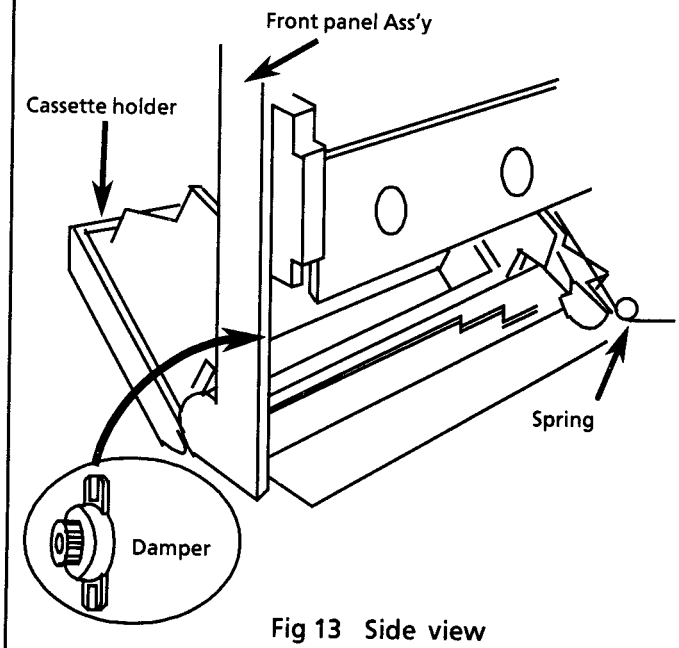


Fig 13 Side view

14. Cassette holder bracket removal

14-1 Remove the Cassette mechanism assembly.

14-2 Remove the damper and spring holding the cassette holder.

14-3 Remove the 4 screws © holding the bracket.

14-4 Remove it.

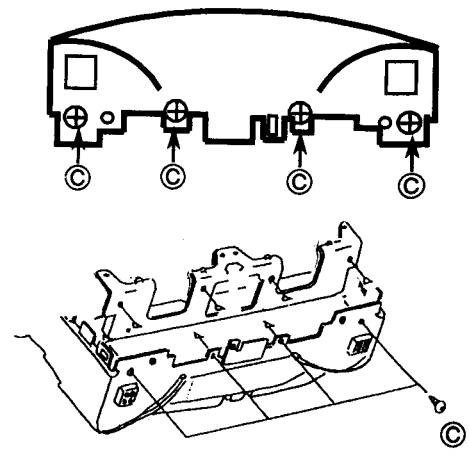


Fig.14

© SBSG3008Z

15. Head assembly

The direction of the head is changed with the direction lever. When servicing, install the direction lever according to the direction of the head.

*Head incline to upper cassette mechanism stop, head holder at a little distance azimuth screw.

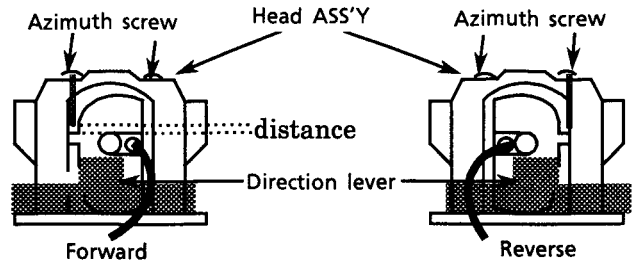


Fig15 Head ass'y side view

16. Head assembly removal

16-1 Remove the cassette mechanism assembly.

16-2 Remove the FPC wire to the Cassette amp PCB.

16-3 Remove the 3 screws Ⓤ fixing the head ass'y to remove it.

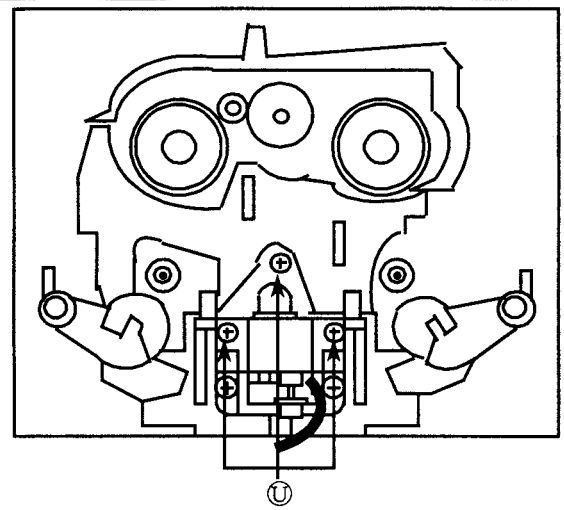


Fig 16Cassette mecha. Top view

17. Capstan motor removal.

17-1 Remove the cassette mechanism.

17-2 Remove the cassette deck control P.C.Board.

17-3 Remove the 6screws Ⓙ holding the bracket.

17-4 Remove the hooks (■) of the bracket.

17-5 Put the cutting on the flywheel A together the bracket's pawl as shown in Fig. 17-a and check that the flywheel B is removed from the bracket's pawl(Fig. 17-b).

17-6 Remove the capstan motor with the bracket.

17-7 Unsolder the broken flat wire of the capstan motor.

17-8 Remove the 2screws fixing the motor and the bracket.

* To remove the bracket, it is easier to remove mech."B" first. Vice versa, assembling mech."A" is easier for reassembly.

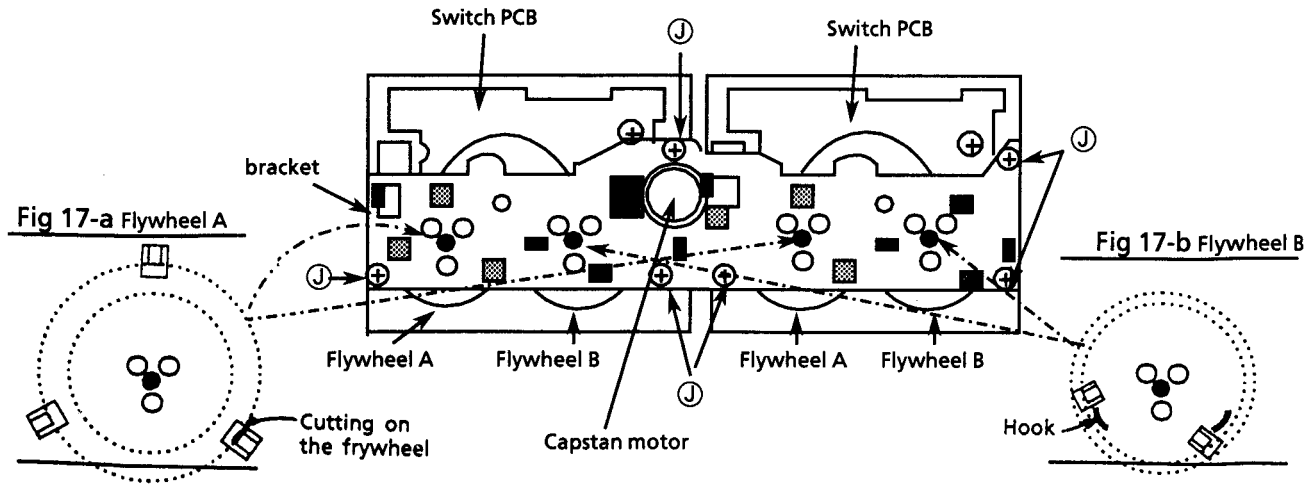


Fig. 17 Cassette mechanism bottom view

Ⓙ ..... SBSF2608Z Ⓤ SDSR2004Z

18. Flywheel removal
18-1 Remove the cassette mechanism assembly.
18-2 Remove the cassette amp P.C.Board.
18-3 Remove the 6 screws Ⓙ and the bracket.
18-4 Remove the 4 hooks of the bracket.
18-5 Remove the bracket.
18-6 Remove the flywheels.
*The oil on the capstan must be wiped out after re-assembling.

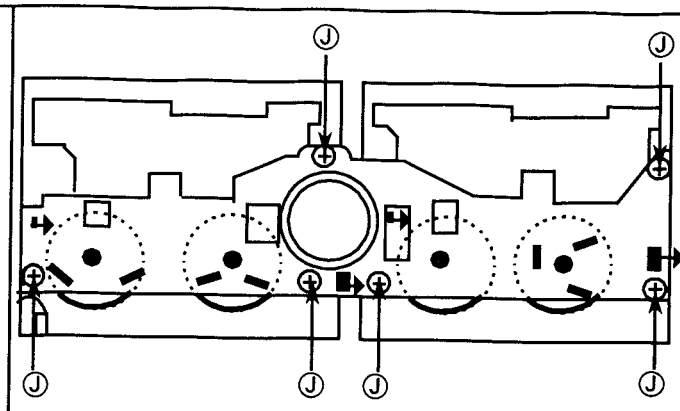
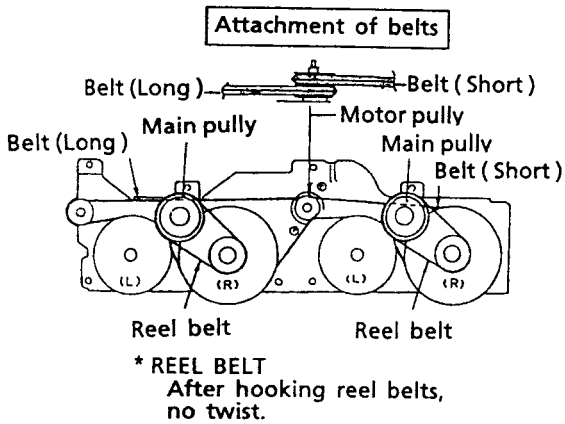


Fig 18 Cassette mechanism bottom view

19. How to install the belts
19-1 Install the flywheels and belts as shown in the figure below. (Fig 19)
When putting the belts, put the long belt first.
19-2 Install the main reels to put the belts on the flywheels.



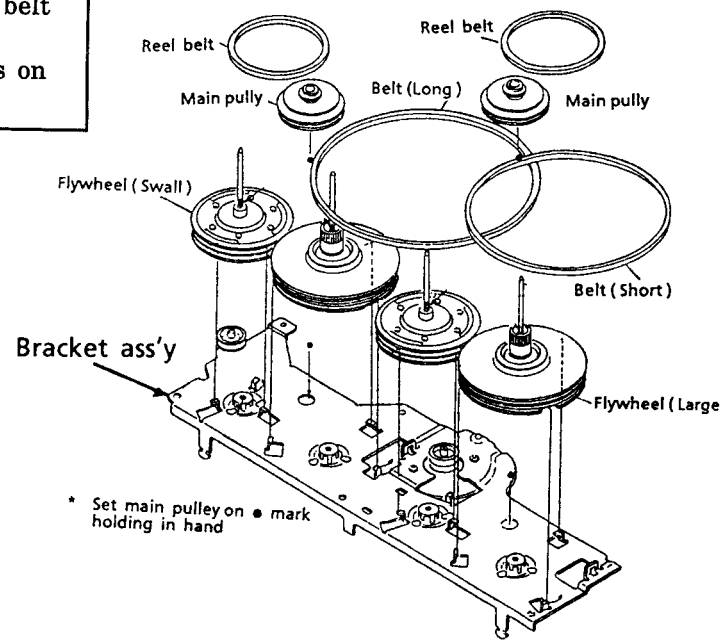


Fig. 19 Install the belts

20. How to install the cassette mech. and bracket ass'y.
20-1 Set main pulley on ● mark for bracket holding in hand. (Fig.19)
20-2 Install the bracket ass'y on the cassette mech..(Fig.20)
when assembling the cassette mechanisms, assembling the cassette mechanism"A" first.

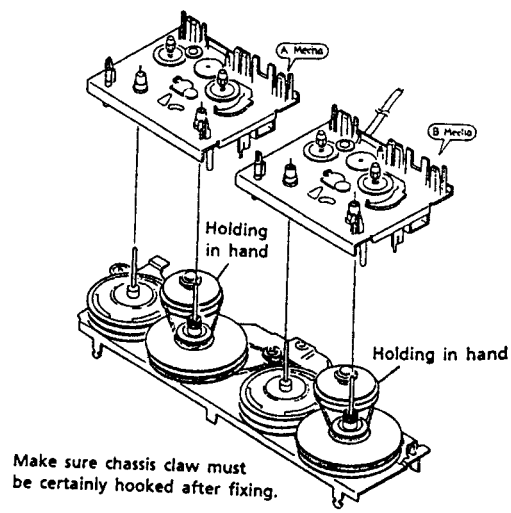


Fig. 20 Install thecassette mech. and bracket ass'y

Ⓙ .. SBSF2608Z

21. Switch P.C.Bord removal

21-1 Remove the cassette mechanism assembly.

21-2 Remove the bracket.

21-3 Remove the 1 screw Ⓥ.

21-4 Unsolder the broken solenoid.

21-5 Release the 4 hooks holding the Switch P.C.Bord.

21-6 Remove it.

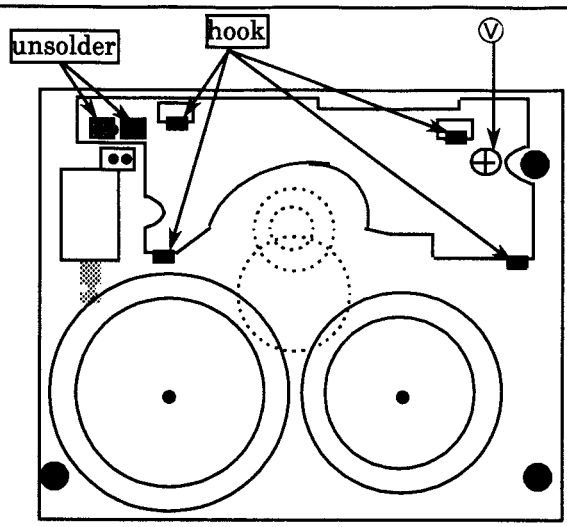


Fig 21 Cassette mechanism bottom view

22. How to install the cassette mechanism

Install the parts as shown in the Fig.22 and Fig.23.

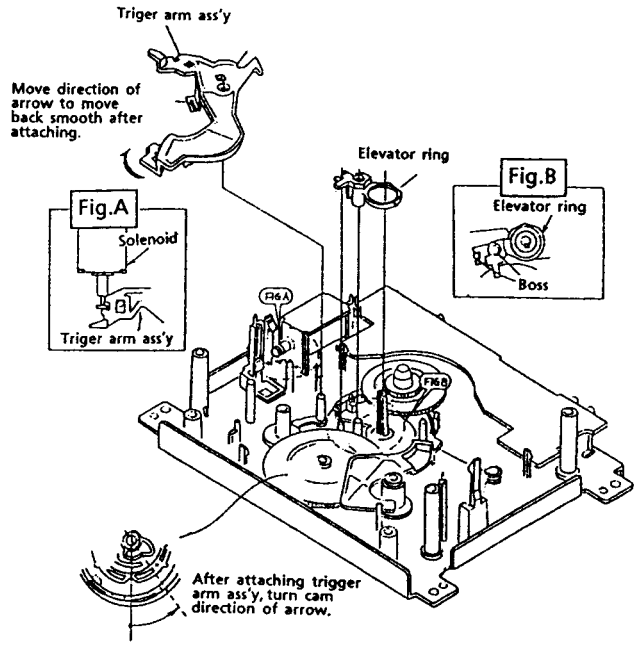


Fig. 22

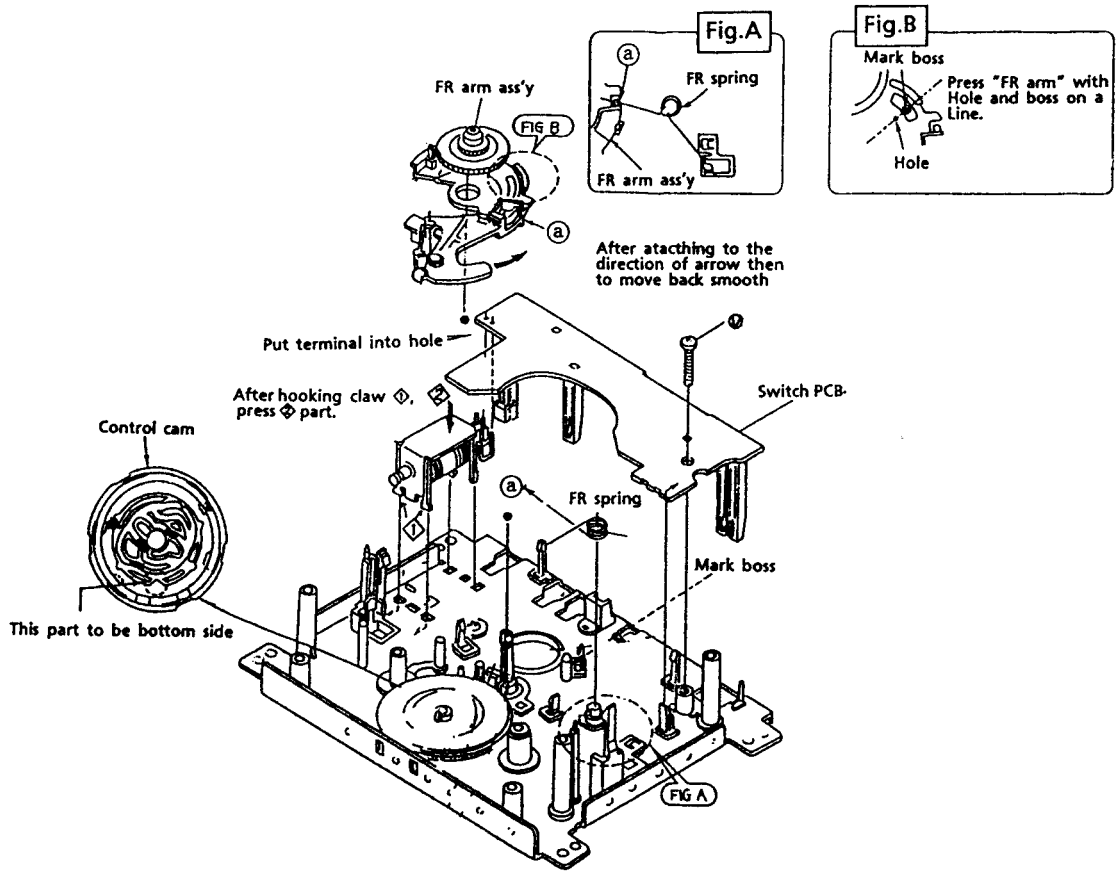
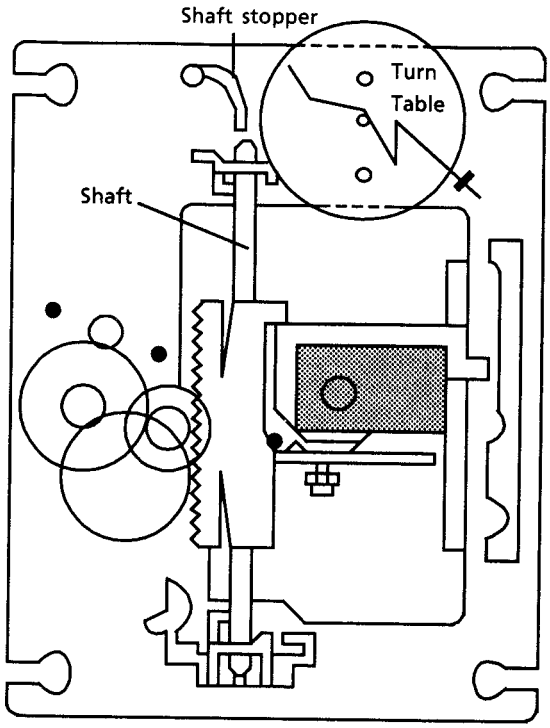


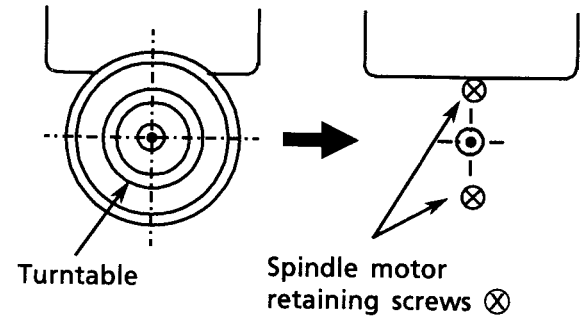
Fig. 23

Ⓥ .. SDST2612Z

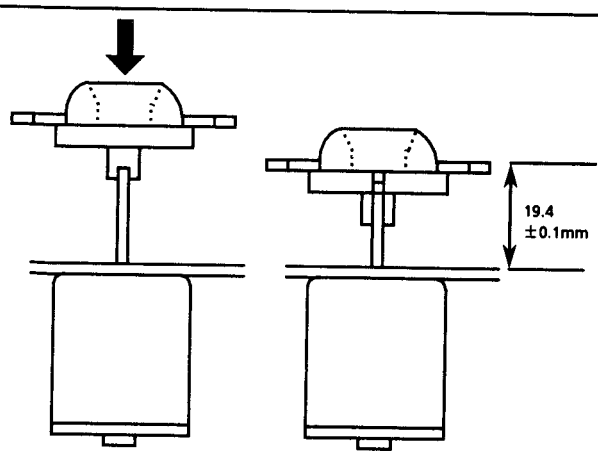
23. Removing the Pickup
23-1 Remove the CD mech. assembly.
23-2 Release the shaft to remove the pickup.



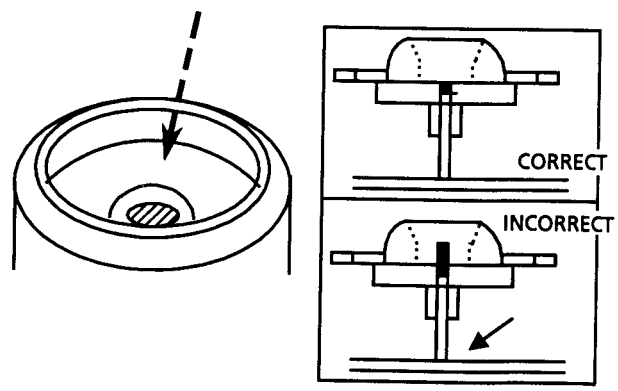
24. Removing the Spindle motor
24-1 Remove the CD mech. assembly.
24-2 Remove the turntable, and remove the 2 screws Ⓧ retaining the spindle motor.
24-3 Remove the screw retaining the spindle and feed motor circuit board and unsolder it.



25. Spindle motor installation
25-1 Tighten the 2 screws to the same torque.
25-2 Fasten the spindle and feed motor P.C. board with the screw and solder.
25-3 Install the turntable.When installing, press straight down at the center of the turntable until the distance from the surface of the mech. base to the turntable is exactly 19.4±0.1mm.



26. After inserting the turntable, bond the motor shaft and turntable together (at the section marked by an arrow in fig 20 on the left below).



27. Use "LOCKTITE" #460 bonding agent, and apply as little as possible.
Take care not to allow any excess bonding agent to get onto the turntable.
Be extremely careful not to allow bonding agent to adhere to the motor bearing (the section marked by an allow in fig 20 on the right).

Ⓧ .. SDSP2003N

How to check the P.C.Bord assemblys

1. Remove the top cover.
2. Remove the tray assembly.
3. Remove the rear panel.
4. Remove the CD mechanism.
5. Cut the tieband.(Fig.Ⓐ)
6. Remove the front panel assembly with same P.C.Bord assembly.(Fig.Ⓑ)
7. Check the same P.C.Bord. assembly.

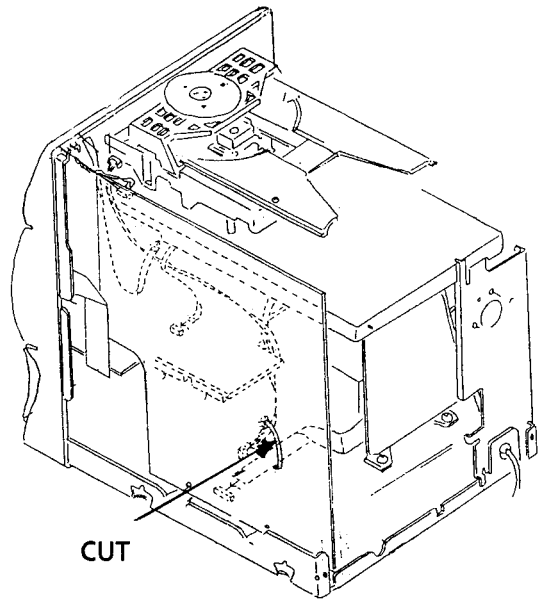


Fig. Ⓐ

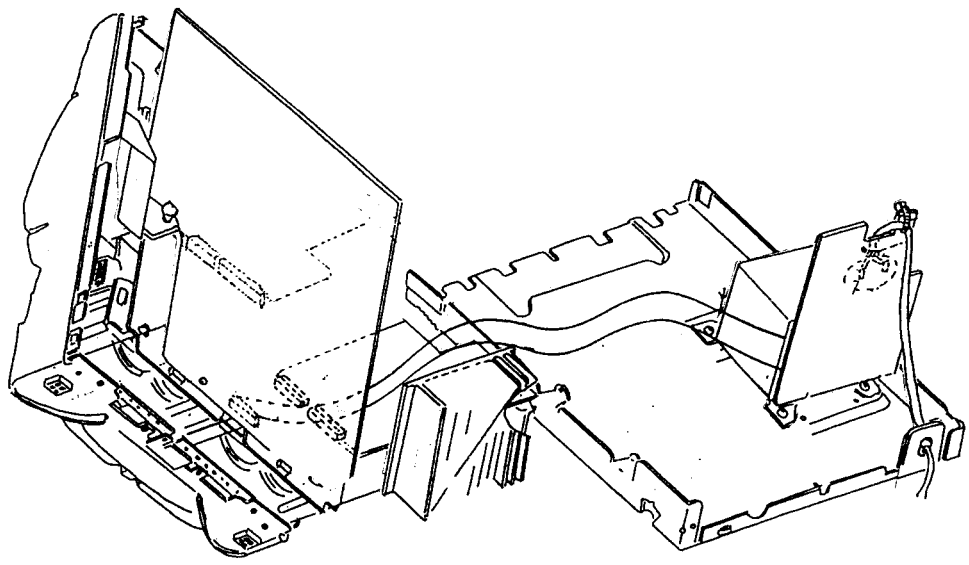
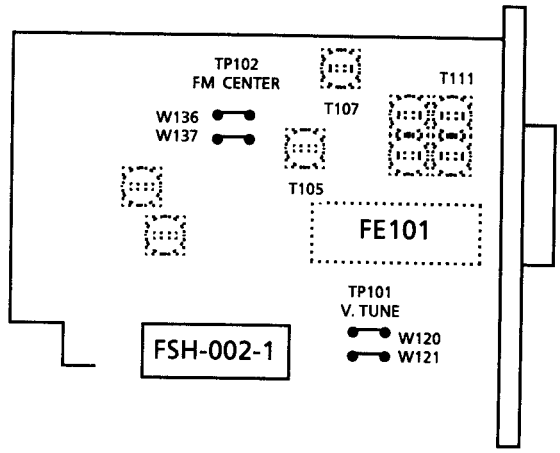


Fig. Ⓑ

Adjustment procedures

■ Tuner section



(1) Tuning voltage

Confirm the voltages at TP101 is within the standard values shown in the table below. If the voltages are not satisfied, replace T111 for MW and for LW or FE101 for FM.

FM Tuning voltage (Unit : V)

Area	Frequency	
	87.5MHz	108MHz
Except VX	1.6±1.0(V)	8±2.0 (V)
VX	1.6±1.0(V)	6~11(V)

AM Tuning voltage (Unit : V)

Area	Frequency (MW)							Frequency (LW)	
	522KHz	530KHz	531KHz	1600KHz	1602KHz	1629KHz	1710KHz	144kHz	288kHz
BS,EF,EN,G,GI,VX	>0.7	—	—	—	—	<8.3	—	0.5<	>7.5
U,UT,UB,UP,US(Channel Space 9kHz)	—	—	>0.8	—	<7.9	—	—	—	—
Universal(Channel Space 10kHz)	—	>0.8	—	<7.9	—	—	—	—	—
A	>0.7	—	—	—	—	<8.3	—	—	—

(2) FM center meter

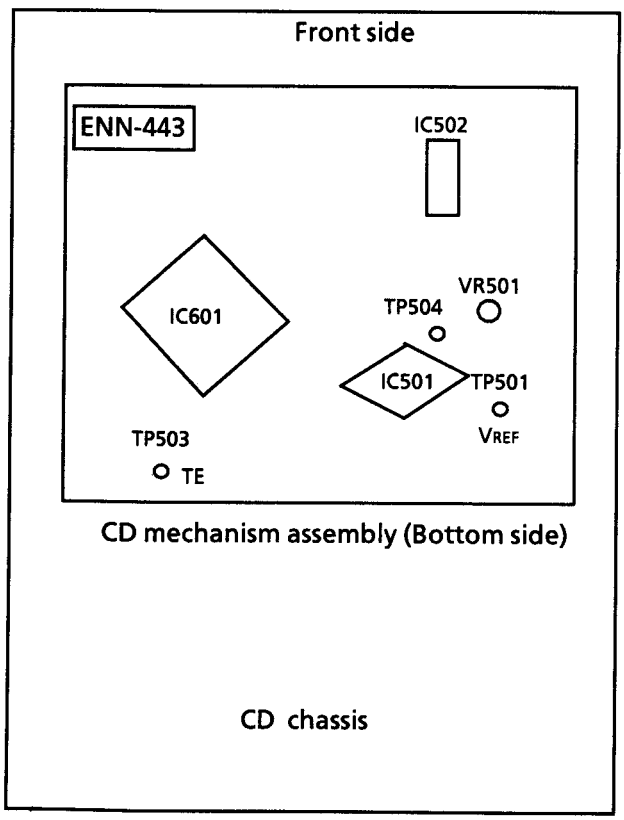
Receive a broadcast by using the function of 'AUTO STOP'.
Adjust T105 (detector coil) so that the voltage at TP102 becomes 0±1.5mV.

The Marks for Designated Areas

A	Australia	BS	the U.K.	EF	Continental Europe	EN	Scandinavia
G	Germany	GI	Italy	UB	Hong Kong	UP	Korea
US	Singapore	UT	Taiwan	U	Universal	VX ...	East Europe

No mark indicates all area.

■CD section



1. Tray assembly removal.
2. Rear panel removal.
3. CD mechanism assembly removal.
4. Connections all wires.
5. Adjusting Tracking offset adjustment.

Tracking offset adjustment

1) Measuring instruments : Oscilloscope, Normal disc
2) Adjusting procedure
   (1) Connect an oscilloscope with TP503 (HOT side) and TP501 (EARTH side) on the CD servo (ENN-443) PC board.
   (2) Play a disc.
   (3) Short circuit between TP504 and TP501.
   (4) Adjust VR501 for setting the DC level of the tracking error (off set) becomes 0.

   Note : Adjust VR501 for setting the waveform becomes symmetrical around the 0 level.
   Input to the oscilloscope should be DC coupling.

■ Deck section

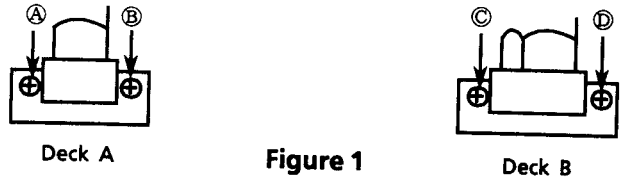
1. Measuring instruments

Audio frequency signal generator (0dbs output at the 600 ohm output terminal from 50Hz to 20KHz)
Electronic voltmeter
Frequency counter
Wow & Flutter meter
Distortion Meter with band pass filter
Attenuator (600 ohm impedance)
A resistor with 600Ω

Tape No.	Frequency	Level (Wow & Flutter)	Purpose
VTT-703L	10kHz	−10dBs	Head azimuth , Frequency Response
VTT-712	3000Hz	0dBs 0.025%WRMS	Tape Speed , Wow & Flutter
VTT-724	1kHz	−4dBs	Standard Level
TMT-6447	—	—	Blank Skip
TMT-6247 , TMT-6237	—	—	Music Scan
TMT-7088S	—	—	Recording standard Normal : UR
AC-712	—	—	Recording standard METAL :MA
AC-513	—	—	Recording standard CrO_2: SA
TW-2111, TW-2121	—	—	Forward / reverse play torque measuring
TW-2231	—	—	Feed forward / rewind torque measuring
C-120 Tape	—	—	Comfirming the tape running

2. Adjustment and repairing the mechanism

Item	Adjustment method	Standard value	Remarks
Head azimuth	Deck A 1. Connect an electronic voltmeter to the DOLBY TP(figure 5) to playback VTT-703L. 2. Adjust screw Ⓐ so that the indication of the voltmeter becomes maximum when PLAY (▶) is pressed. 3. Adjust screw Ⓑ so that the indication of the voltmeter becomes maximum when PLAY (◀) is pressed. Deck B 4. Adjust screw Ⓒ so that the indication of the voltmeter becomes maximum when PLAY (▶) is pressed. 5. Adjust screw Ⓓ so that the indication of the voltmeter becomes maximum when PLAY (◀) is pressed. 6. After making the adjustment,apply screw lock to prevent screws Ⓐ, Ⓑ, Ⓒ and Ⓓ coming loose .	Maximum	1. **Refer to figure 1.** 2. When the specified characteristic cannot be obtained because of head wear, excessive magnetization, etc., replace the head assembly and adjust the head azimuth. Also, perform the electric adjustment. 3. When there is the difference of more than 3 ~ 4 dB between left and right output levels, replace the head assembly to avoid complaints.
Playback torque	1. Measure the torque in the playback mode by the torque meter.	26 ~ 72 g-cm	When the standard torque cannot be obtained, replace the FR arm assembly or motor.
Fast forward torque	1. Measure the torque in the fast forward mode by the torque meter.	80 ~ 170 g-cm	When the standard torque cannot be obtained,replace the FR arm assembly or motor.
Rewind torque	1. Measure the torque in the rewind mode by the torque meter.	80~ 170 g-cm	When the standard torque cannot be obtained, replace the FR arm assembly or motor.
Wow & flutter	1. Connect the wow & flutter meter to the DOLBY TP(figure 5) and play back VTT-712 . 2. Its reading should be within 0.25% (WTD).	Less than 0.25%	As a complaint may occur if the wow & flutter fluctuates by 0.1% even though it is allowed in the standard, repairing is required.



Deck A　　Deck B

Figure 1

3. Electrical Adjustments (Make the following adjustments after adjusting the head azimuth.)

In principle, the adjustments should be made in the following sequence.
Set the NR switch to OFF and the BEAT CUT switch to "1".
Adjustments marked with an asterisk (*) should always be made after the head is replaced

0dBs=0.775V.

Item	Adjustment Method	Adjustment Location	Standard Value	Remarks
Tape Speed	1. Connect a frequency counter to the DOLBY TP(figure 5) and play back VTT-712. 2. Adjust the semi-fixed resistor VR948 on ENH-267-1 (figure 4).	VR927	3,000 Hz ±10Hz	Connect a wow & flutter meter with a built-in frequency counter to the speaker terminals.
* Standard level (Playback Level)	1. Connect an electronic voltmeter to the DOLBY TP (figure 5). Play back VTT-724 (1 kHz : −4dBs) to adjust the semi-fixed resistors.	**Deck A** L: VR301 R: VR302 **Deck B** L: VR303 R: VR304	488mV (−4dBs)	1) The playback level varies when the head is replaced so should be adjusted. Use an electronic voltmeter with an impedance of 100 kΩ or more.
* Playback Frequency Response	1. Connect an electronic voltmeter to the DOLBY TP (figure 5). 2. Play VTT-703L (10kHz : −10dBs) and adjust semi-fixed resistors to obtain the standard values.	**Deck A** L: VR305 R: VR306 **Deck B** L: VR307 R: VR308	245mV (−10dBs)	—
* Recording Bias Frequency	1. Connect a frequency counter to the BIAS TP(figure 3 and 5), and perform a recording to adjust bias frequency.	L301	105 kHz ±5 kHz	Set the BEAT CUT SWITCH to "1". (BS,EF,EN,G,GI,VX only)
* Record / Play Frequency Response (Bias current)	1. Supply 1kHz and 12.5kHz with 30mV signals to AUX terminals respectively to record them. 2. Connect an electronic voltmeter to the DOLBY TP (figure 5) to confirm the recorded values. 3. If the values are not satisfied, adjust the semi-fixed resistors and record the signal again to confirm the recorded values.	L : VR309 R : VR310	0±2 dB with 1 kHz as the standard.	**Refer to figure 2 below.** 1) The recording and playback frequency response of a cassette deck are adjusted by adjusting the bias. 2) Perform the adjustment with normal tape and confirm that the values are within the range for metal tape.

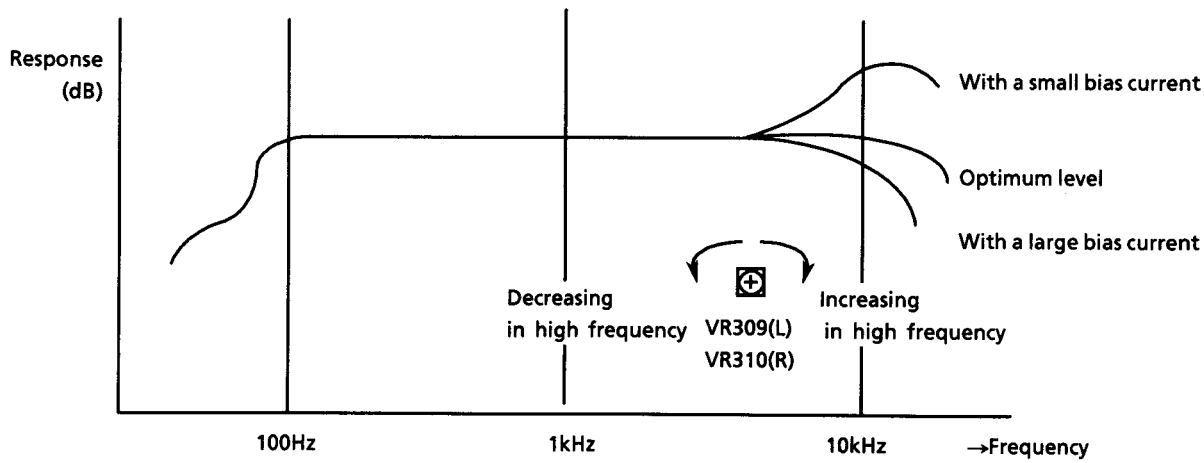


Figure 2

Item	Adjustment Method	Adjustment Location	Standard Value	Remarks
* Record / Playback Sensitivity	1. Input a 1kHz (300mV) signal to AUX terminal and record it with a normal tape. 2. Connect an electronic voltmeter to the DOLBY TP(figure 5) to confirm the values. 3. If the values are not satisfied , adjust the semi-fixed resistors and record the signal again to confirm the values.	L : VR311 R : VR312	−5.5dBs (411mV)	Adjust with normal tape and make sure that the left / right level difference is 1.0dB or less
* Recording / playback distortion	1) Input a 1 kHz (300mV) to AUX terminal and record it. 2) Play it back and check the speaker out with a distortion meter to make sure it is within the criterion.		less than 3% (Normal/ CrO_2)	Perform after the record / play frequency response and recording /playback sencitivity adjustments.
* Recording / playback S/N ratio	1) Input a 1 kHz (300mV) signal to AUX terminal and record it. While recording, remove the input and record without the signal. 2) Connect a electronic voltmeter to the speaker terminals to measure the output levels. 3) Confirm that the output level ratio between the signals with a 1kHz and no signal is more than 40dB.		more than 40 dB (Normal/ CrO_2)	--
* Erase ratio check	1. Record a music source using the Metal tape. 2. Rewind and erase the recorded section. 3. Comfirm nothing can be heard.	—	—	—
Music Scan	1. Make sure not to work the music scanning operation at the start of tape wind. 2. Make sure to work the music scanning operation at the end of tape wind.	—	—	—

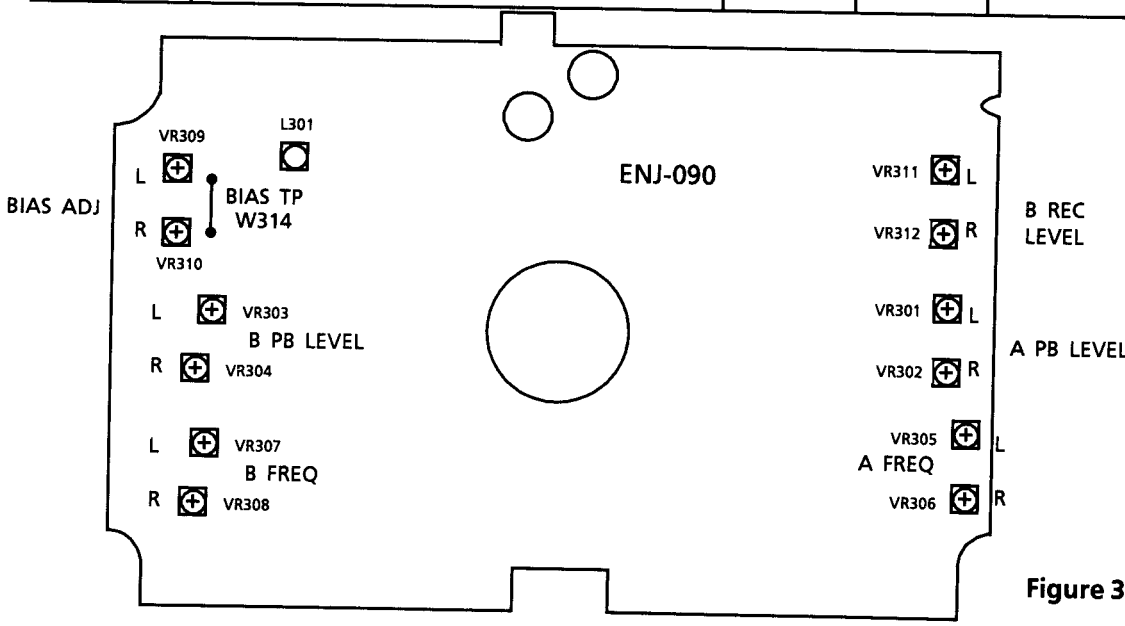


Figure 3

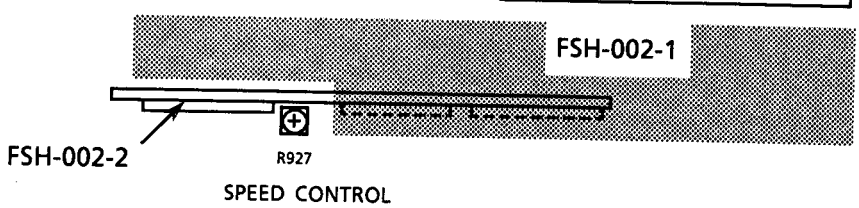


Figure 4

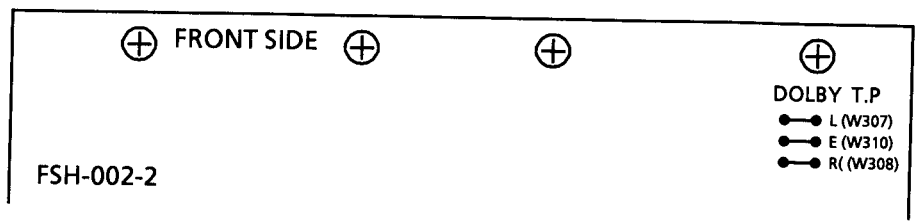
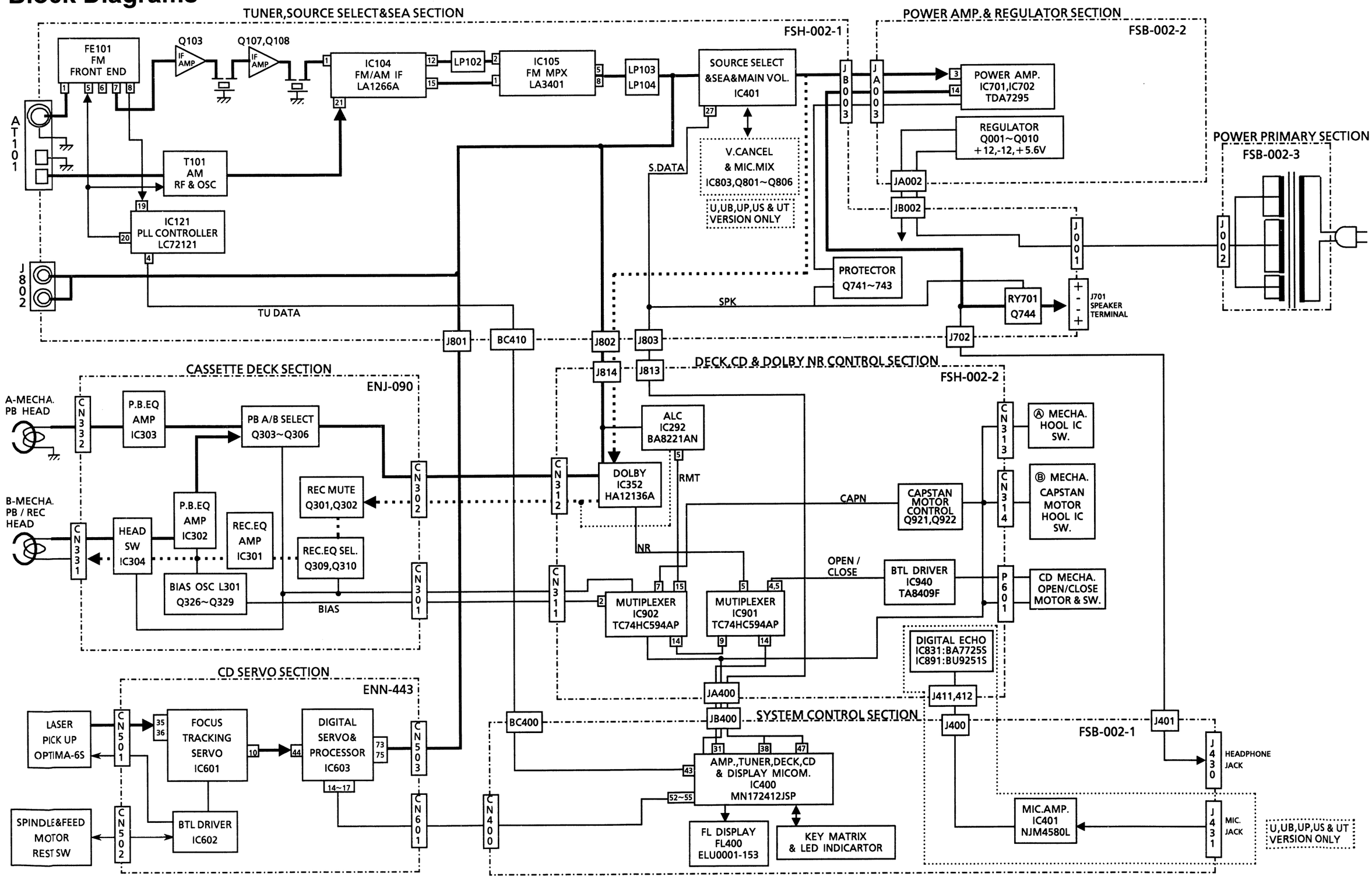


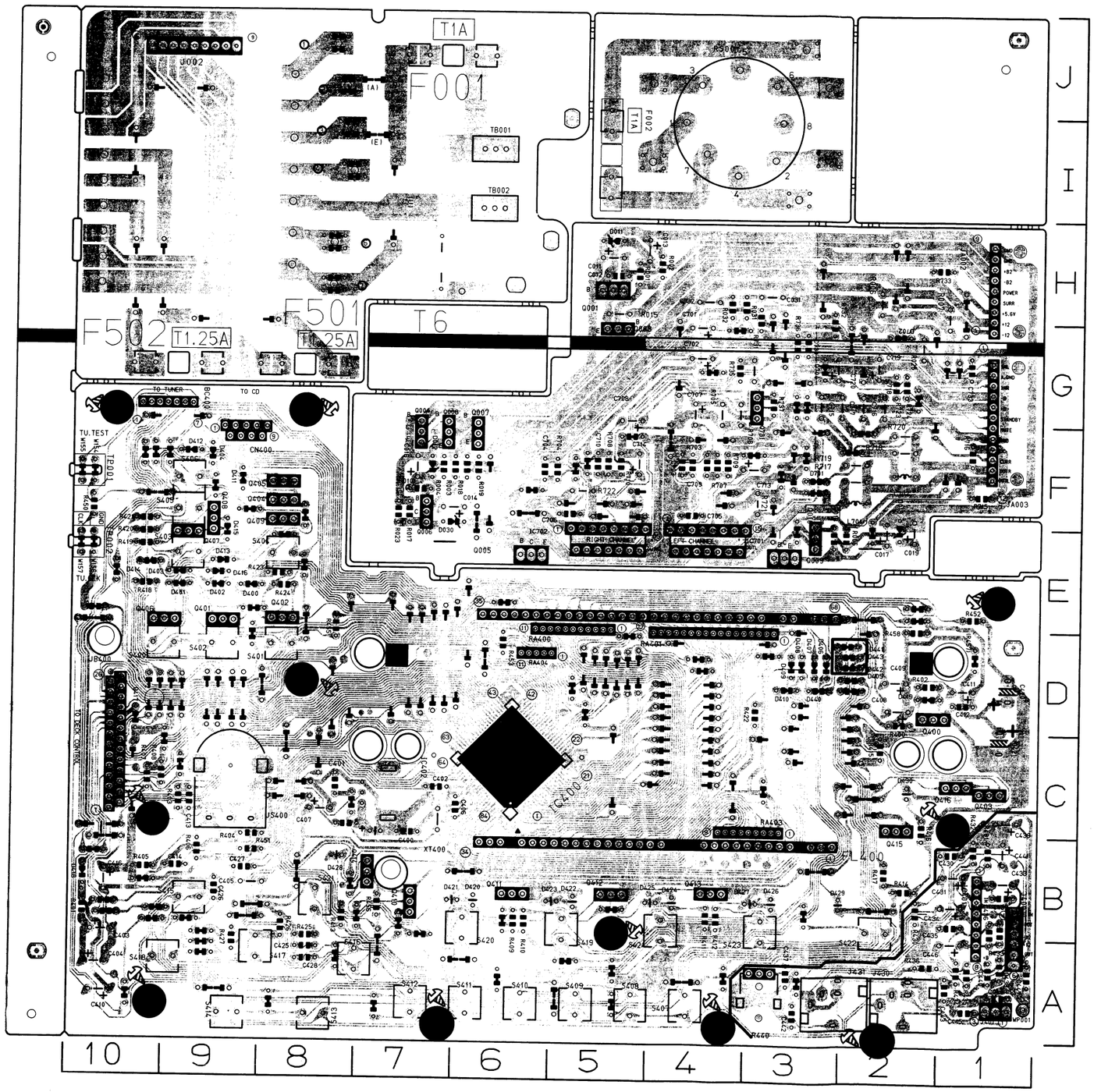
Figure 5

Block Diagrams



Printed Circuit Boards

■ System Control, Power Amplifier & Primary P.C. Board (FSB-002)



Parts Location List (FSB-002)

Symbol	X	Y
C011	5	H
C012	5	H
C013	5	H
C014	7	F
C016	7	F
C017	2	F
C018	3	F
C019	2	F
C400	7	B
C402	7	C
C403	10	B
C404	10	A
C406	6	C
C407	8	C
C408	2	D
C409	2	D
C410	10	A
C411	1	D
C412	1	D
C413	9	C
C414	9	B
C416	10	B
C430	1	B
C431	1	B
C432	1	B
C433	1	B
C434	1	B
C435	1	B
C436	1	B
C437	3	A
C438	1	A
C439	1	C
C440	1	A
C441	1	B
C442	3	A
C443	1	A
C444	1	A
C445	1	A
C707	4	F
C708	5	G
C715	3	G
C716	2	G
C717	3	G
C718	2	G
C719	2	G
C720	3	G
D011	5	H
D012	7	F
D013	2	F
D030	7	F
D400	9	E
D401	9	E
D402	9	E
D403	9	E
D404	9	F
D405	3	D
D406	3	D
D407	3	D
D408	3	D
D409	3	D
D410	3	D
D411	9	F
D412	9	F

Symbol	X	Y
D413	9	E
D414	10	E
D415	9	F
D416	9	E
D419	2	D
D420	6	B
D421	7	B
D422	5	B
D423	5	B
D424	4	B
D425	4	B
D426	3	B
D427	3	B
D428	8	B
D429	3	B
D430	2	C
D440	3	D
D441	3	D
D442	3	D
D443	3	D
D701	3	F
D702	2	G
F001	7	J
F002	5	I
F501	8	G
F502	9	G
FL400	3	B
IC400	6	C
IC401	1	B
IC402	7	C
J430	2	A
J431	3	A
Q0001	5	H
Q0003	5	G
Q0004	7	F
Q0005	6	E
Q0006	7	F
Q0007	6	F
Q0009	3	E
Q0010	3	E
Q400	1	D
Q401	9	E
Q402	8	E
Q403	1	C
Q404	8	F
Q405	8	F
Q406	9	E
Q407	9	E
Q408	9	E
Q409	8	F
Q410	7	B
Q411	6	B
Q412	5	B
Q413	4	B
Q414	7	B
Q415	2	C
Q416	1	C
Q731	3	G
R001	5	H
R002	4	H
R003	7	F
R004	7	F
R005	2	E

Symbol	X	Y
R006	2	H
R007	1	G
R010	7	F
R017	7	F
R018	6	F
R019	6	F
R400	2	D
R401	10	B
R402	2	D
R403	9	C
R404	8	B
R405	10	B
R406	9	B
R407	10	C
R408	10	C
R409	6	B
R410	6	B
R411	4	B
R412	4	B
R413	8	B
R414	2	B
R415	2	C
R416	2	B
R417	2	B
R418	10	E
R419	10	E
R420	10	E
R421	10	F
R430	2	B
R431	1	B
R432	1	B
R433	1	B
R434	1	A
R435	1	A
R440	3	A
R703	4	F
R704	5	F
R707	4	F
R708	5	F
R709	4	F
R710	5	F
R715	1	F
R716	1	F
R717	2	F
R718	2	F
R719	3	F
R720	2	F
R721	3	F
R722	5	F
R723	2	G
R724	2	G
R731	3	G
R732	3	H
R735	4	G
R736	3	G
R737	3	G
RA400	5	D
RA401	3	D
RA403	3	C
RA404	6	D
RS001	4	I
S001	3	I
S400	10	D

Symbol	X	Y
S401	8	D
S402	9	D
S403	9	E
S404	8	E
S405	9	F
S406	9	F
S407	4	A
S408	5	A
S409	5	A
S410	6	A
S411	6	A
S412	7	A
S413	8	A
S414	9	A
S415	9	B
S416	8	A
S417	9	A
S418	9	A
S419	5	B
S420	6	B
S421	8	B
S422	2	B
S423	3	B
S424	4	B
TB001	6	H
TB002	6	H
XT400	7	C

■ Tuner, Deck Mechanism Control & DC Regulator P.C. Board (FSH-002)

Parts Location List(FSH-002)

Symbol	X	Y
B133	1	J
B134	1	J
B135	1	J
B136	1	J
B410	5	J
B604	6	J
B605	6	J
C001	3	A
C002	3	B
C003	4	B
C004	4	A
C005	4	B
C006	5	A
C007	4	B
C008	5	B
C009	4	C
C010	4	C
C020	6	A
C021	6	B
C022	6	B
C024	6	B
C025	5	A
C026	6	B
C1002	8	H
C1003	8	H
C1004	8	H
C1005	8	G
C1006	8	G
C1007	8	G
C1008	8	G
C1009	8	G
C1011	8	I
C1012	8	I
C1013	8	I
C1014	8	I
C1015	8	I
C1016	9	I
C1017	9	I
C1018	8	I
C1020	8	G
C1021	8	G
C1022	8	F
C1023	8	G
C1024	8	E
C1025	8	E
C741	2	A
C742	2	A
C743	1	C
C744	1	B

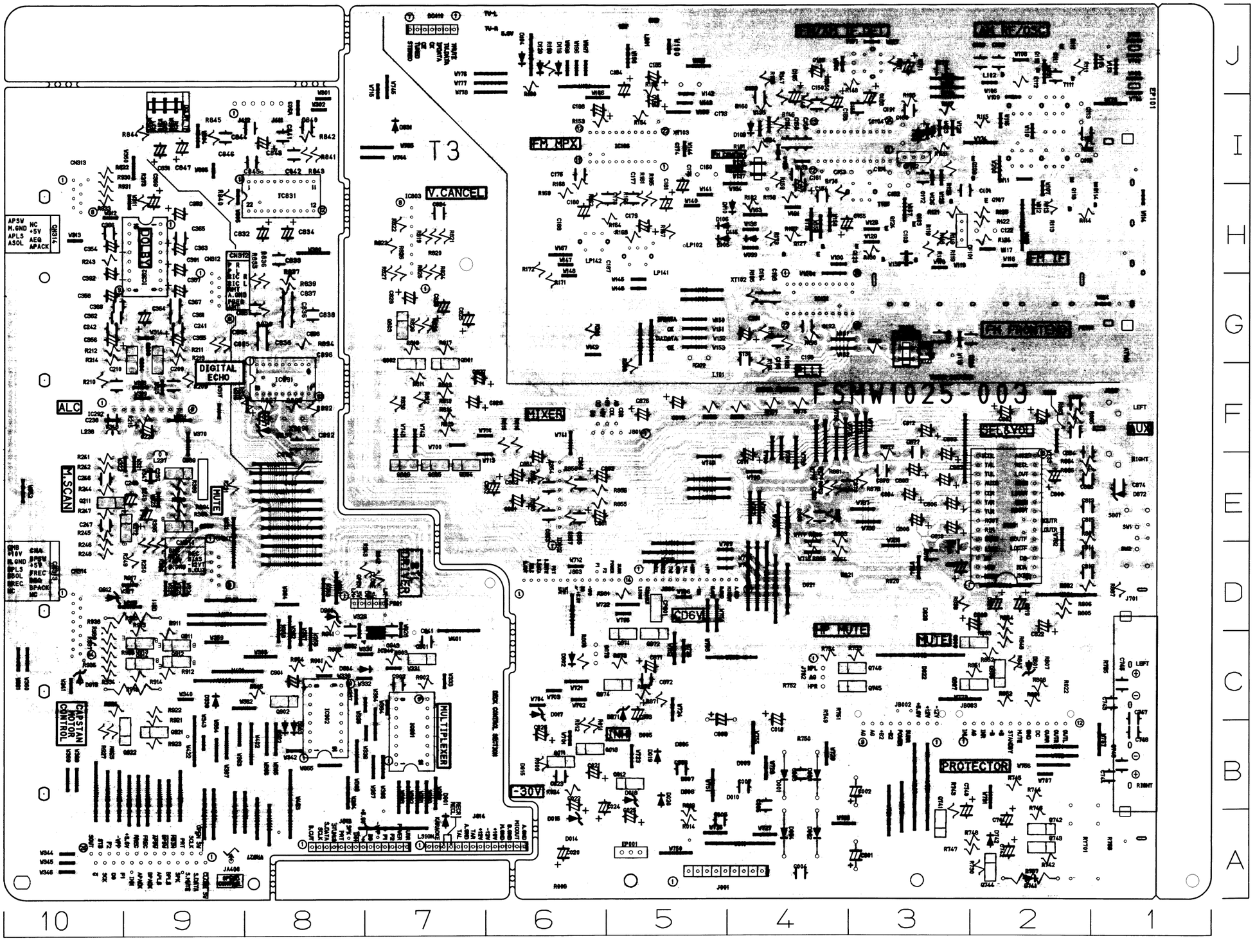
Symbol	X	Y
C745	1	C
C746	1	B
C801	2	F
C802	2	F
C803	3	E
C804	3	E
C805	3	E
C806	3	E
C807	3	E
C808	3	E
C809	2	E
C810	3	E
C811	4	E
C812	3	F
C813	1	E
C814	1	D
C815	1	E
C816	1	D
C817	3	D
C818	3	D
C819	2	D
C820	2	D
C821	3	D
C822	2	D
C823	7	G
C824	7	H
C831	7	G
C832	7	G
C833	7	F
C834	7	F
C849	2	D
C851	6	E
C852	6	E
C861	6	E
C862	6	E
C871	5	C
C872	5	C
C873	5	B
C874	1	E
C881	5	E
C882	5	E
CP801	5	D
D001	4	B
D002	4	A
D003	4	B
D004	4	A
D005	5	B
D006	5	B
D007	5	B

Symbol	X	Y
D008	5	B
D009	4	B
D010	4	B
D016	6	A
D017	6	C
D018	5	B
D019	5	B
D020	5	B
D1031	8	F
D741	2	A
D742	2	A
D801	2	C
D802	6	C
D871	5	B
D872	1	E
EP101	1	J
IC801	2	D
IC802	6	E
IC803	7	H
J702	4	C
J801	5	F
J803	6	D
J804	5	D
Q011	6	B
Q012	5	B
Q013	6	B
Q741	3	A
Q742	2	A
Q743	2	A
Q744	2	A
Q745	4	C
Q746	4	C
Q801	7	G
Q802	7	G
Q803	7	G
Q804	7	E
Q805	7	E
Q806	3	C
Q807	3	C
Q808	2	C
Q809	7	E
Q871	5	C
Q872	5	C
Q873	6	C
Q874	5	C
R008	6	A
R009	6	B
R011	6	B
R012	6	C

Symbol	X	Y
R013	5	A
R014	5	A
R020	3	D
R021	4	D
R022	2	C
R1001	8	G
R1002	8	H
R1003	8	G
R1004	8	G
R1005	8	G
R1010	8	G
R1011	8	I
R1012	8	I
R1013	8	I
R1021	8	F
R1022	8	F
R1031	8	F
R1035	9	H
R1036	9	I
R1038	8	C
R1051	9	I
R1052	7	C
R1053	8	C
R1054	8	C
R730	2	A
R742	2	A
R743	3	A
R744	2	B
R745	2	B
R746	2	A
R747	3	A
R748	3	A
R749	4	B
R750	4	B
R751	4	B
R752	4	C
R753	4	C
R754	4	C
R755	1	C
R756	1	A
R757	2	A
R801	2	E
R802	2	D
R803	2	C
R804	2	D
R805	2	D
R806	2	D
R808	2	C
R809	7	F

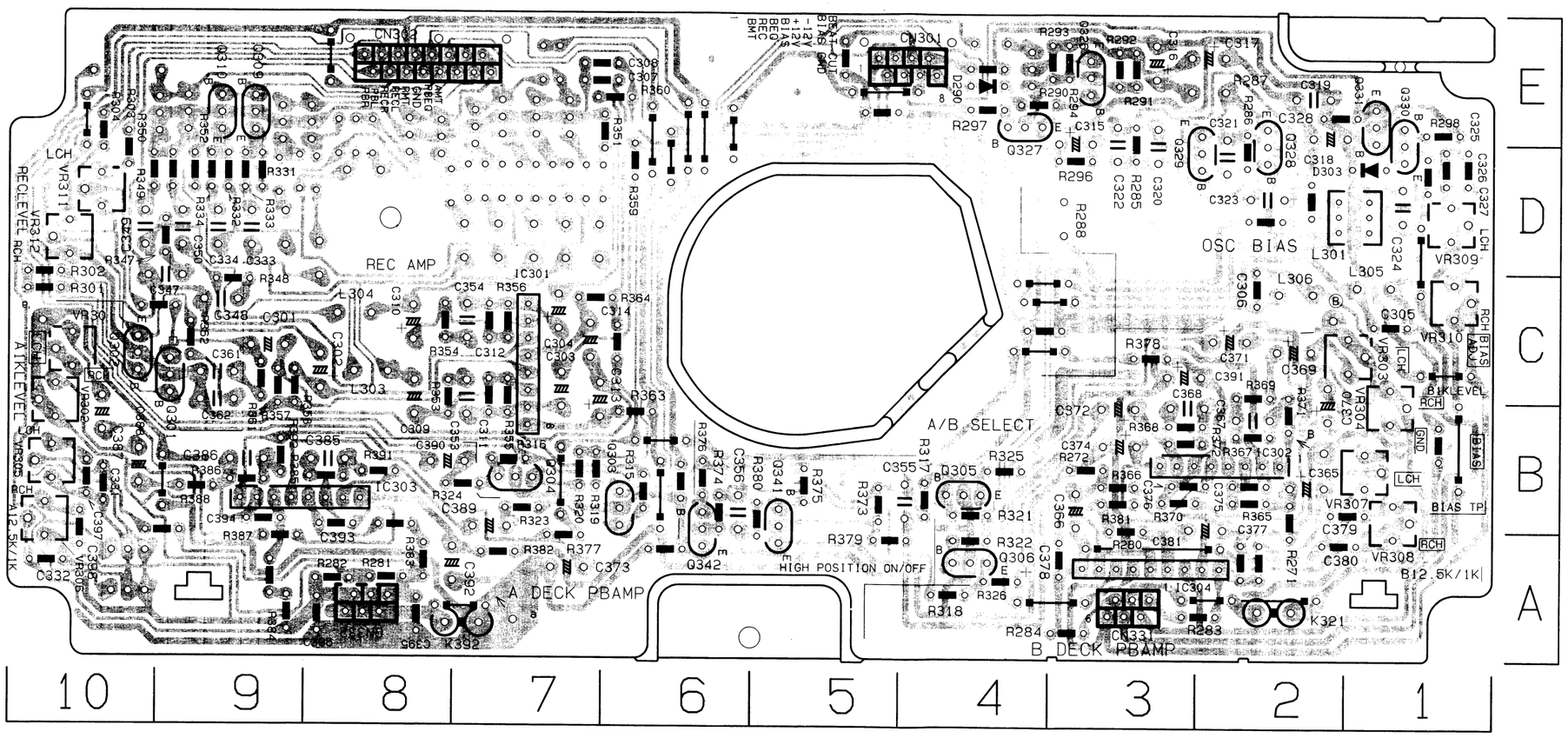
Symbol	X	Y
R810	7	F
R811	7	F
R812	7	F
R813	7	F
R814	7	F
R815	6	E
R816	6	F
R817	7	G
R818	7	G
R819	7	H
R820	7	H
R821	7	H
R822	7	H
R823	7	H
R824	7	G
R825	7	G
R826	7	H
R827	7	G
R828	7	G
R829	7	G
R830	7	F
R831	5	D
R833	3	D
R835	2	C
R836	2	C
R851	3	C
R852	2	C
R853	6	E
R854	6	E
R855	5	E
R856	6	E
R857	6	E
R858	6	E
R861	2	C
R862	2	C
R863	4	E
R864	3	D
R865	4	E
R866	4	D
R869	6	C
R871	5	C
R872	5	C
R873	5	C
R875	3	E
R876	3	E
R877	3	E
R879	4	E
R880	4	E
R881	4	E

Symbol	X	Y
R882	4	E
R883	2	F
R884	1	E
R885	2	F
R886	2	E
R887	1	D
RY701	2	A
S801	1	E
XT1021	8	F
XT141	5	I



CA-D3S CA-D3S

■ Deck/Amp. Control P.C. Board (ENJ-090)



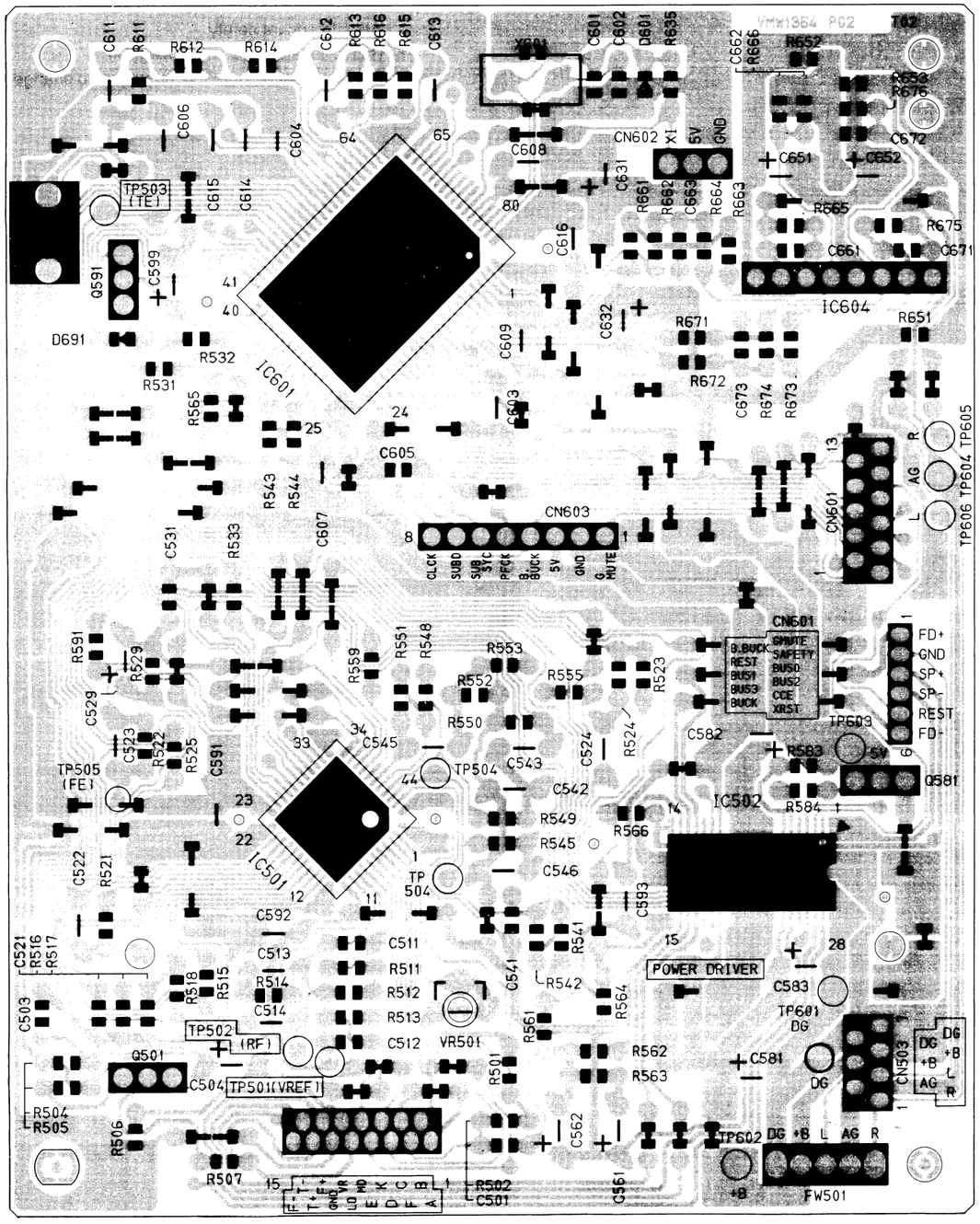
Parts Location List (ENJ-090)

Symbol	X	Y
C301	9	C
C302	8	C
C303	7	B
C304	7	C
C305	1	C
C306	2	C
C307	7	E
C308	6	E
C309	8	B
C310	8	C
C311	7	B
C312	7	C
C313	7	B
C314	7	C
C315	3	D
C316	3	E
C317	2	E
C318	2	E
C319	2	E
C320	3	D
C321	2	D
C322	3	D
C323	2	D
C324	1	D
C325	1	D
C326	1	D
C327	1	D
C328	2	E
C329	7	D
C330	8	D
C331	10	B
C332	10	A
C333	9	D
C334	9	D
C337	7	D
C338	7	D
C341	8	C
C342	9	D
C345	7	D
C346	7	D
C347	9	C
C348	9	C
C349	10	D
C350	9	D
C353	7	C
C354	7	C
C355	4	B
C356	6	B
C361	9	C
C362	9	B
C365	2	B
C366	3	B
C367	2	B
C368	2	B
C369	2	C
C370	2	B
C371	2	C
C372	3	B
C373	7	A
C374	3	B
C375	2	B
C376	3	B
C377	2	A
C378	3	A
C379	2	B
C380	2	A
C381	3	B
C385	8	B
C386	9	B
C387	10	B
C388	10	B
C389	7	B
C390	8	B
C391	3	C
C392	7	A
C393	8	B
C394	9	B
C395	8	A
C396	8	A
C397	10	B
C398	10	B

Symbol	X	Y
CN301	5	E
CN302	8	E
CN331	3	A
CN332	8	A
D290	4	E
D301	7	E
D302	7	E
D303	1	D
IC301	7	C
IC302	2	B
IC303	9	B
IC304	3	A
K321	2	A
K392	7	A
L301	2	D
L303	8	C
L304	8	C
L305	1	C
L306	2	C
Q301	9	C
Q302	10	C
Q303	6	B
Q304	7	B
Q305	4	B
Q306	4	A
Q307	8	E
Q308	8	E
Q309	9	E
Q310	9	E
Q311	7	E
Q312	7	E
Q313	8	E
Q314	9	E
Q315	7	E
Q316	7	E
Q317	9	E
Q318	9	E
Q323	10	A
Q324	10	A
Q325	4	E
Q326	3	E
Q327	4	E
Q328	2	D
Q329	2	D
Q330	1	E
Q331	1	E
Q341	5	B
Q342	6	B
R271	2	B
R272	3	B
R280	3	A
R281	8	A
R282	8	A
R283	3	A
R284	3	A
R285	3	D
R286	2	D
R287	3	E
R288	3	D
R290	3	E
R291	3	E
R292	3	E
R293	3	E
R294	3	E
R295	4	E
R296	3	D
R297	4	E
R298	1	E
R301	10	C
R302	10	C
R303	10	D
R304	10	D
R315	6	B
R316	7	B
R317	4	B
R318	4	A
R319	7	B
R320	7	B
R321	4	B
R322	4	A
R323	7	B

Symbol	X	Y
R324	8	B
R325	4	B
R326	4	A
R327	7	D
R328	8	E
R329	8	D
R330	8	E
R331	9	D
R332	9	D
R333	9	D
R334	9	D
R335	6	D
R336	7	D
R337	7	D
R338	7	D
R339	8	E
R340	9	D
R341	8	D
R342	9	D
R343	7	D
R344	7	D
R345	7	D
R346	7	D
R347	9	D
R348	9	C
R349	10	D
R350	9	D
R351	6	E
R352	9	D
R353	8	B
R354	8	C
R355	7	B
R356	7	C
R357	9	B
R358	9	B
R359	6	D
R360	6	E
R361	9	C
R362	9	C
R363	6	B
R364	6	C
R365	2	B
R366	3	B
R367	2	B
R368	3	B
R369	2	C
R370	2	B
R371	2	B
R372	3	B
R373	5	B
R374	6	A
R375	5	B
R376	6	B
R377	7	A
R378	3	C
R379	4	A
R380	5	A
R381	3	B
R382	7	A
R383	8	A
R384	9	A
R385	8	B
R386	9	B
R387	9	A
R388	9	B
R391	8	B
R392	9	B
VR301	10	C
VR302	10	C
VR303	1	C
VR304	1	B
VR305	10	B
VR306	10	B
VR307	1	B
VR308	1	A
VR309	1	D
VR310	1	C
VR311	10	D
VR312	10	D

■ CD Servo P.C. Board (ENN-443)

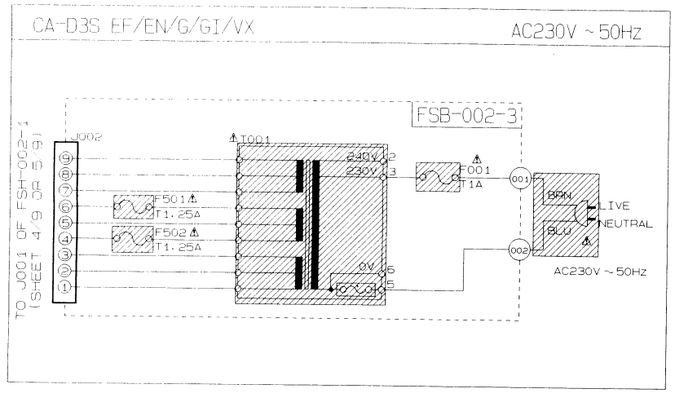


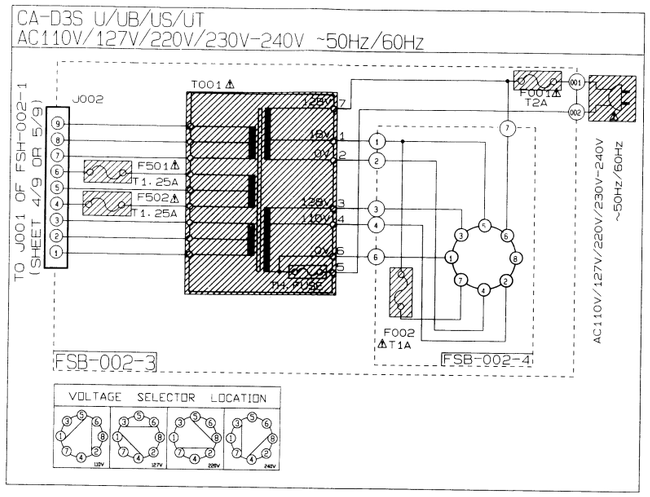
Schematic Diagrams

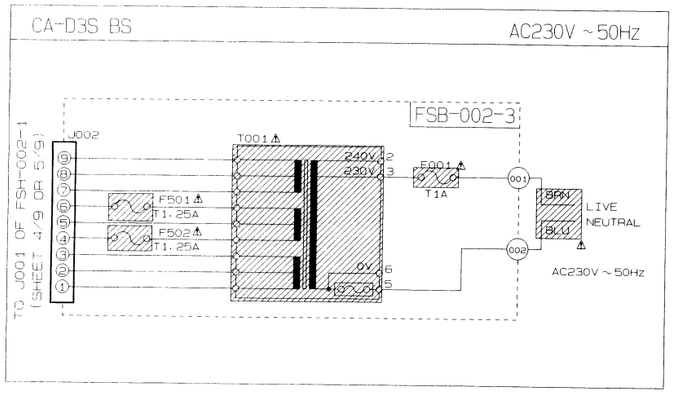
■ Power Primary Section

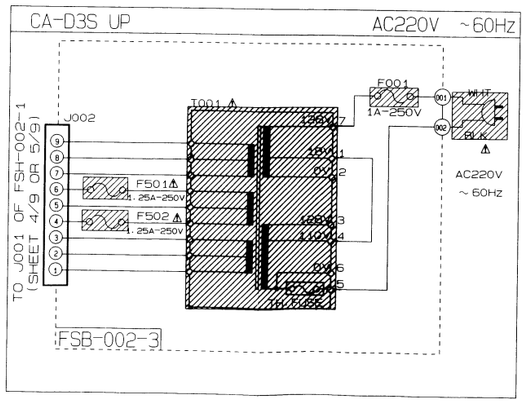
Notes:

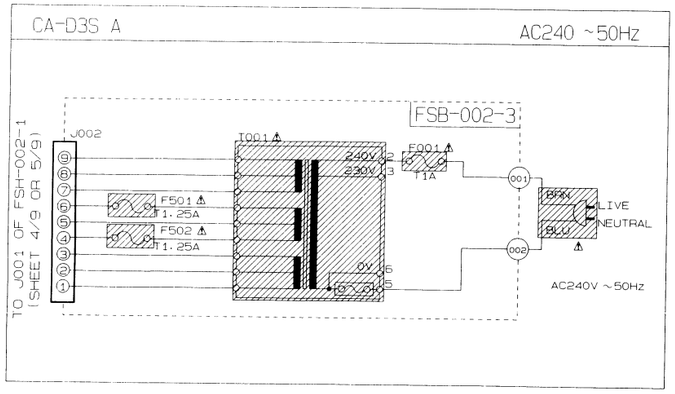
1. ◀ indicates Main signal path.
2. ◀ indicates Recording signal path.
3. When replacing the parts in the darkened are (▨) and those marked with ⚠, be sure to use the designated parts to ensure safety.
8. This is the standard circuit diagram.
   The design and contents are subject to change without notice.











NOTES

1. VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITH NO INPUT SIGNAL CONDITION.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254T-77 TYPE
   Ⓟ POLYPROPYLENE CAPACITOR
   Ⓜ 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR: IT WOULD BE A SHORT.
   FOR CAPACITOR: IT WOULD BE AN OPEN.

VERSION CODES

A	:	AUSTRALIA
BS	:	U.K.
C	:	CANADA
EF	:	CONTINENTAL EUROPE EXCEPT GERMANY AND ITALY
EN	:	NORDIC COUNTRIES
G	:	GERMANY
GI	:	ITALY
J	:	U.S.A.
U	:	UNIVERSAL EXCEPT ALL OF ABOVES
UB	:	HONG KONG
UP	:	KOREA
US	:	SINGAPORE
UT	:	TAIWAN
VX	:	EASTERN EUROPE

*NOTES: CA-D3S HAS THE ABOVE VERSIONS EXCEPT FOR C AND J VERSION

EXPLANATION OF OVERALL OF SCHEMATIC CA-D3S

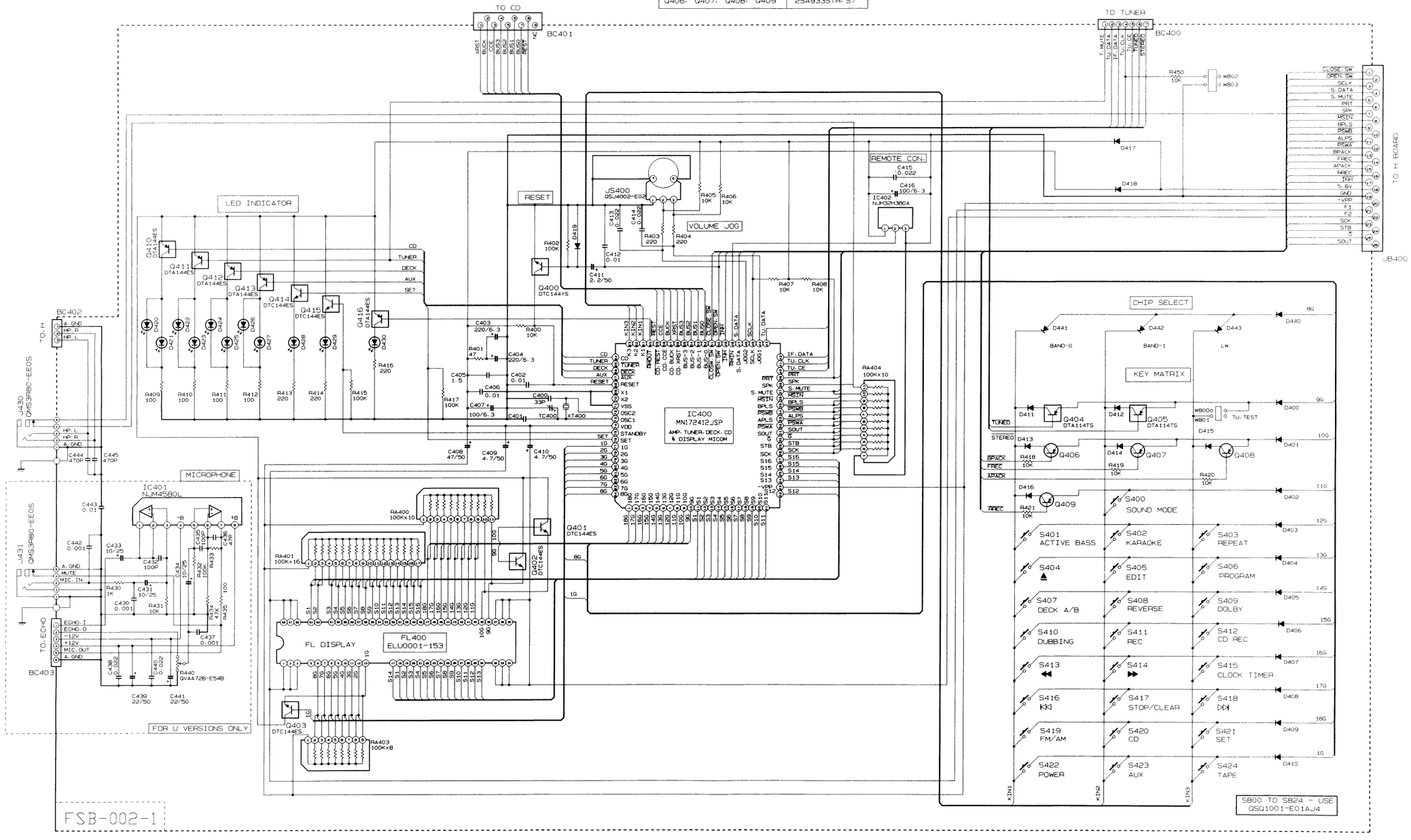
SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/9	CA-D3S	- PRIMARY WITH MAINS TRANSFORMER
2/9	CA-D3S	- FL DISPLAY - SYSTEM CONTROL LSI - USER CONTROL KEYS FOR AUDIO - SIGNAL INPUT JACKS / SOURCE & SEA SELECT
3/9	CA-D3S	- TAPE DECK MECHANISM CONTROL/ CD OPEN & CLOSE - DIGITAL ECHO (U SERIES ONLY)
4/9	CA-D3S (A. BS. EF. EN G. GI. VX)	- DC REGULATOR - AUDIO INPUT/OUTPUT - INHIBIT CIRCUIT - PROTECTION CIRCUIT - MUTING - V. CANCEL & MIXING (U. UB. UP. US. UT VERSION ONLY)
5/9	CA-D3S (U. UB. UP. US UT)	
6/9	CA-D3S	- DIGITAL PROCESSOR AND SERVO FOR AUDIO DISC
7/9	CA-D3S	- MISCELLANEOUS CIRCUITS FOR TAPE DECK SUCH AS AMPLIFIER. SWITCH. BIAS AND OTHERS
8/9	CA-D3S	- TUNER RF/IF/FM MULTIPLEX
9/9	CA-D3S	- POWER AMPLIFIER - DC REGULATOR

NOTES:

1. MARK(*) IS TO SHOW DEVIATION IN VERSIONS. DETAILS ARE EXPLAINED NEAR THE MARK.

■ FL Display & System Control Section

D420. D421. D422. D423 D424. D425. D426. D427	SLR-342MCA47
*D428 D429	SLR-342VCA47
Q406. Q407. Q408. Q409	2SA933S(R.S)



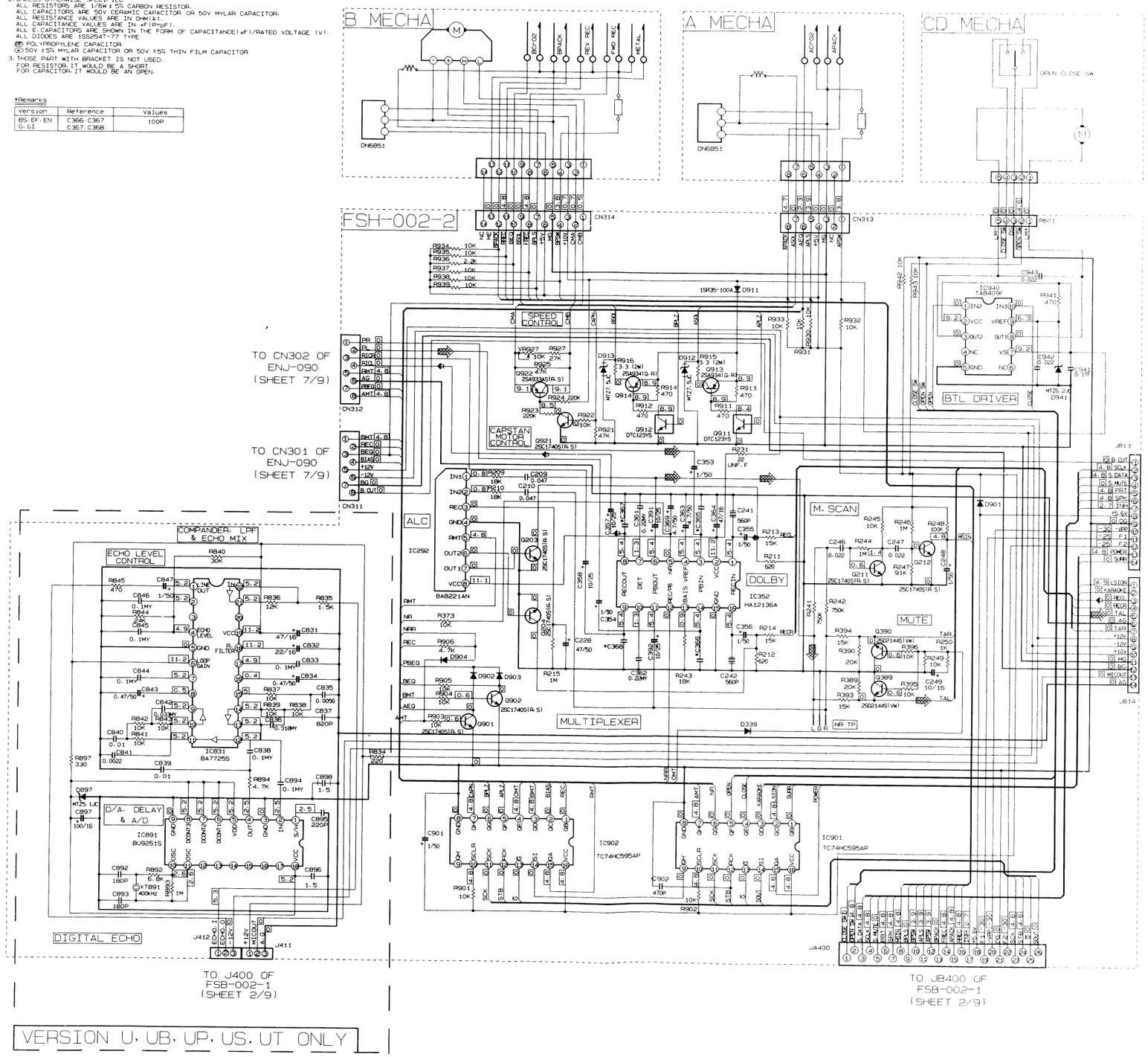
■ Deck Mechanism Control & CD Open/Close Section

NOTES

1. VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITH NO INPUT SIGNAL CONDITION IN TAPE MODE.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS2547-77 TYPE
   Ⓟ POLYPROPYLENE CAPACITOR
   Ⓔ 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR...IT WOULD BE A SHORT.
   FOR CAPACITOR...IT WOULD BE AN OPEN.

*Remarks

Version	Reference	Values
6S-EF-EN G-GI	C366-C367 C367-C368	100P

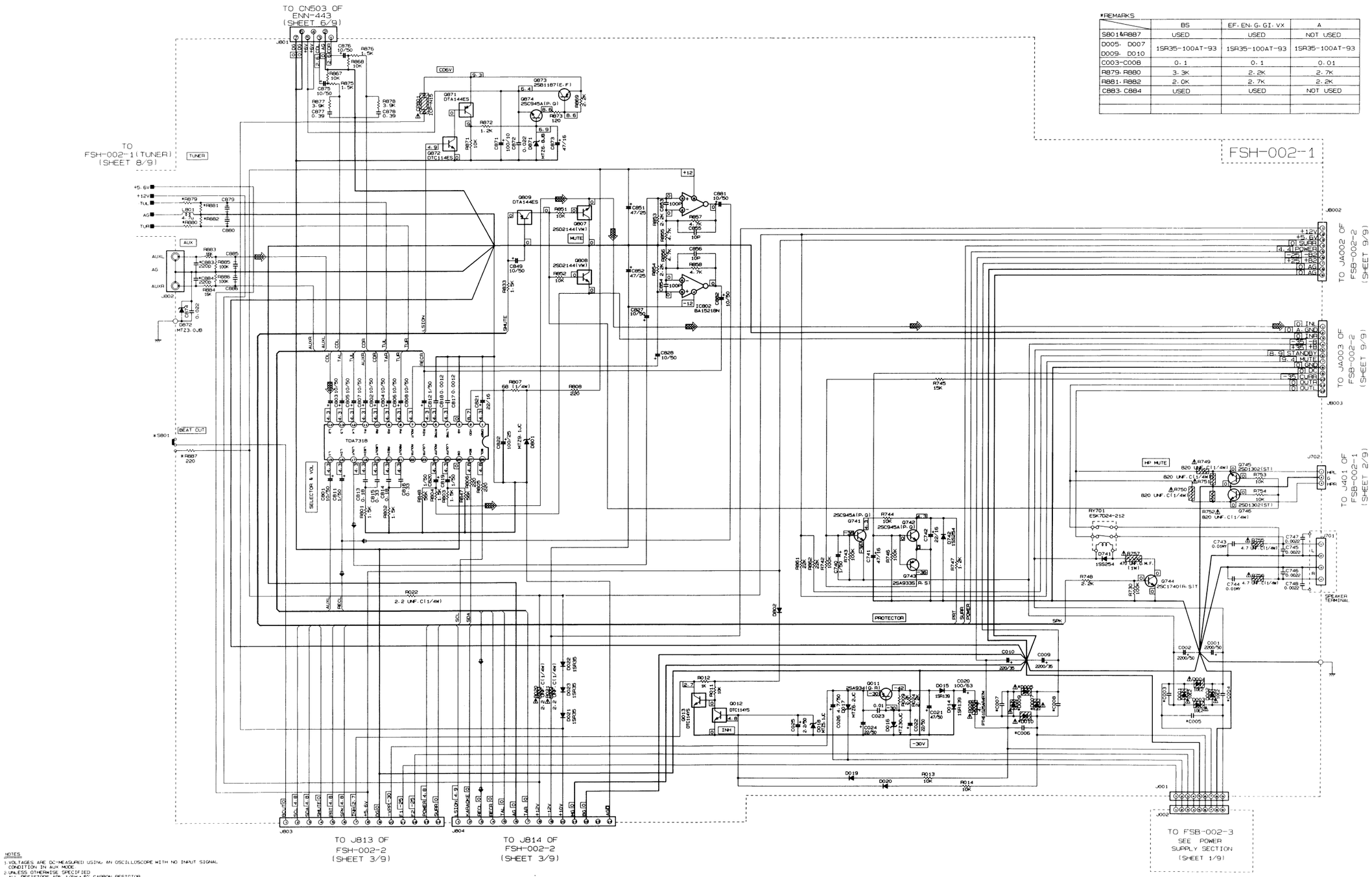


VERSION U, UB, UP, US, UT ONLY

■ DC Regulator & Audio Input Section (A,BS,EF,EN,G,GI,VX)

*REMARKS

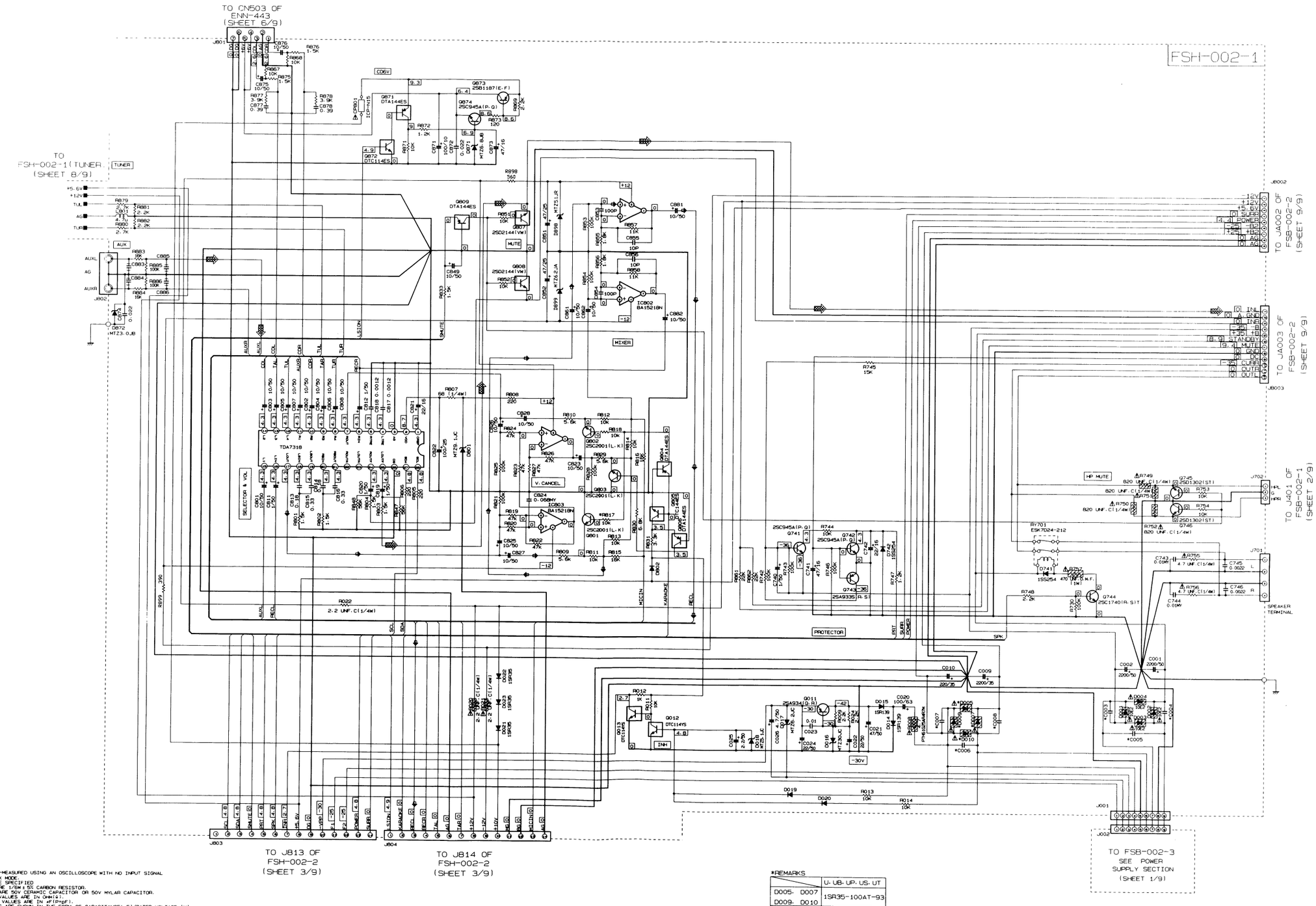
	BS	EF. EN. G. GI. VX	A
S801&RB87	USED	USED	NOT USED
D005. D007 D009. D010	1SR35-100AT-93	1SR35-100AT-93	1SR35-100AT-93
C003-C008	0.1	0.1	0.01
R879. R880	3.3K	2.2K	2.7K
R881. R882	2.0K	2.7K	2.2K
C883. C884	USED	USED	NOT USED



NOTES:
1. VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITH NO INPUT SIGNAL. CONDITION IN AUX MODE.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254T-77 TYPE
   Ⓟ POLYPROPYLENE CAPACITOR
   Ⓜ 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR IT WOULD BE A SHORT.
   FOR CAPACITOR IT WOULD BE AN OPEN.

CA-D3S	CA-D3S

■ DC Regulator & Audio Input Section (U,UB,UP,US,UT)

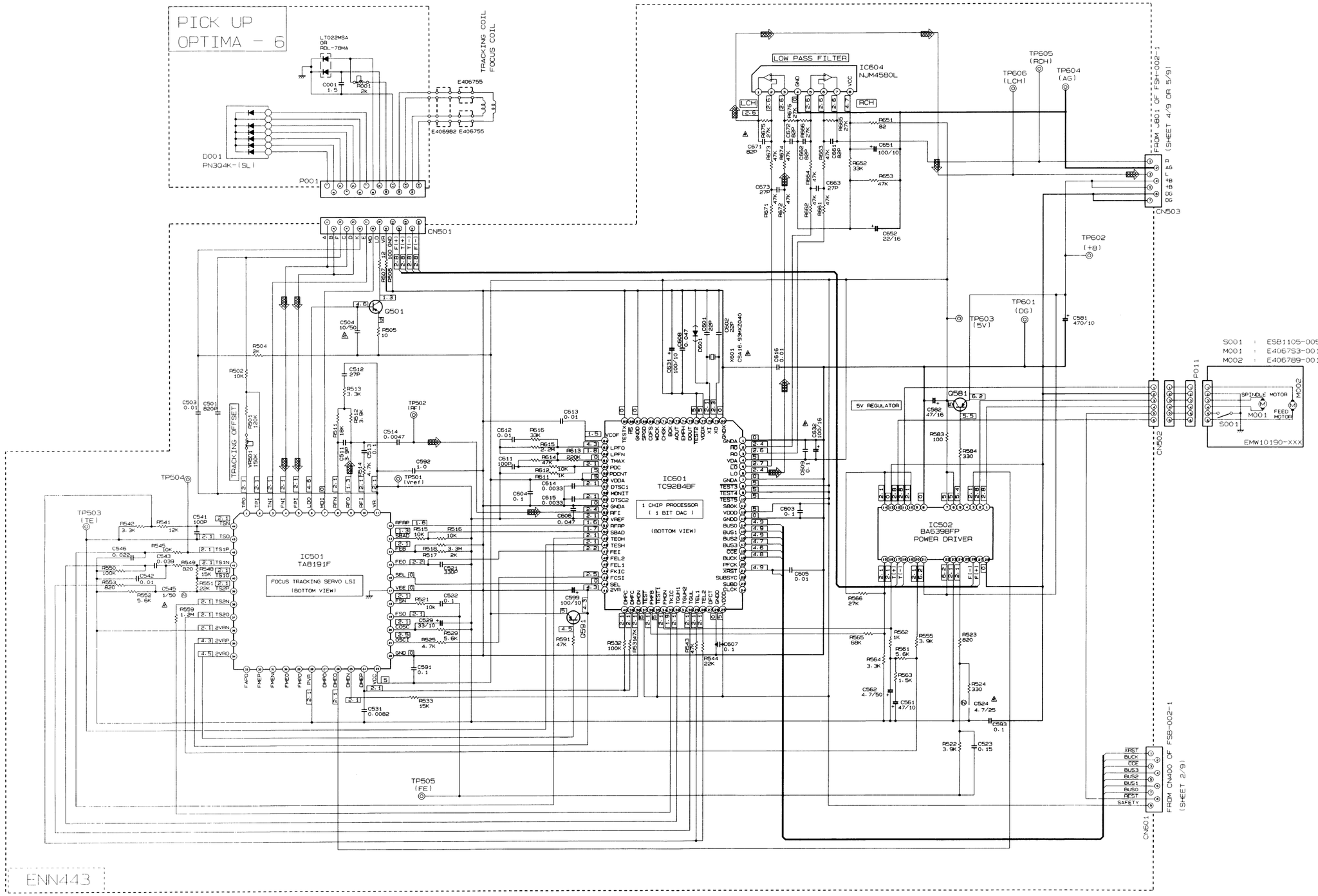


NOTES
1. VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITH NO INPUT SIGNAL CONDITION IN AUX MODE.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(PPdF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254T-77 TYPE
   Ⓟ POLYPROPYLENE CAPACITOR
   Ⓜ 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR IT WOULD BE A SHORT.
   FOR CAPACITOR IT WOULD BE AN OPEN.

*REMARKS

	U. UB. UP. US. UT
D005, D007	1SR35-100AT-93
D009, D010	
C003-C008	0.01

■ CD Servo Section



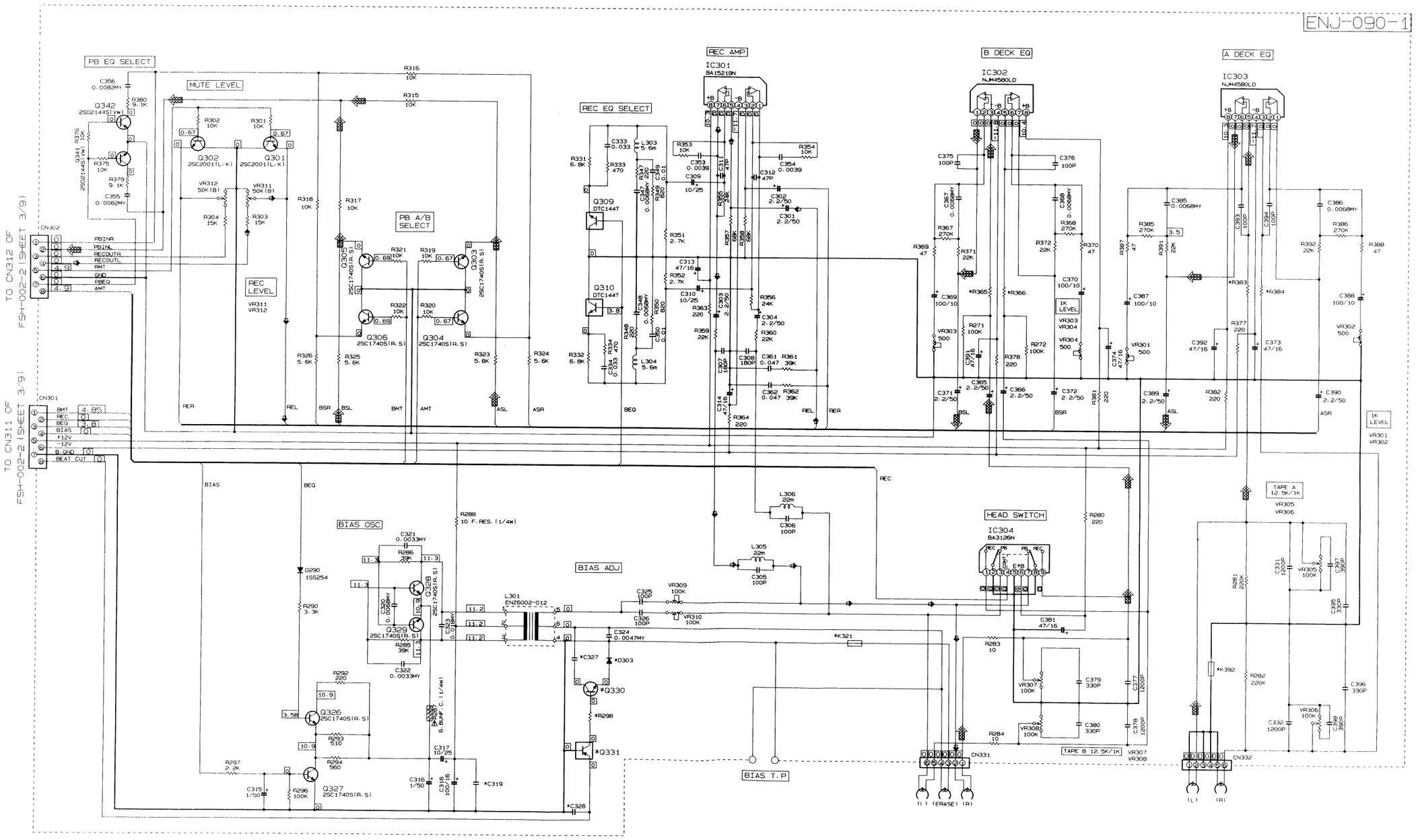
Q501	2SA952(L,K)
Q581	
Q591	2SA1309(R,S)OR 2SA1175(HFE) OR 2SA933S(RS
D601	MA700A (OR RB721Q)
D691	1SS254T-77 (OR MA165)

■ Deck Amplifier Section

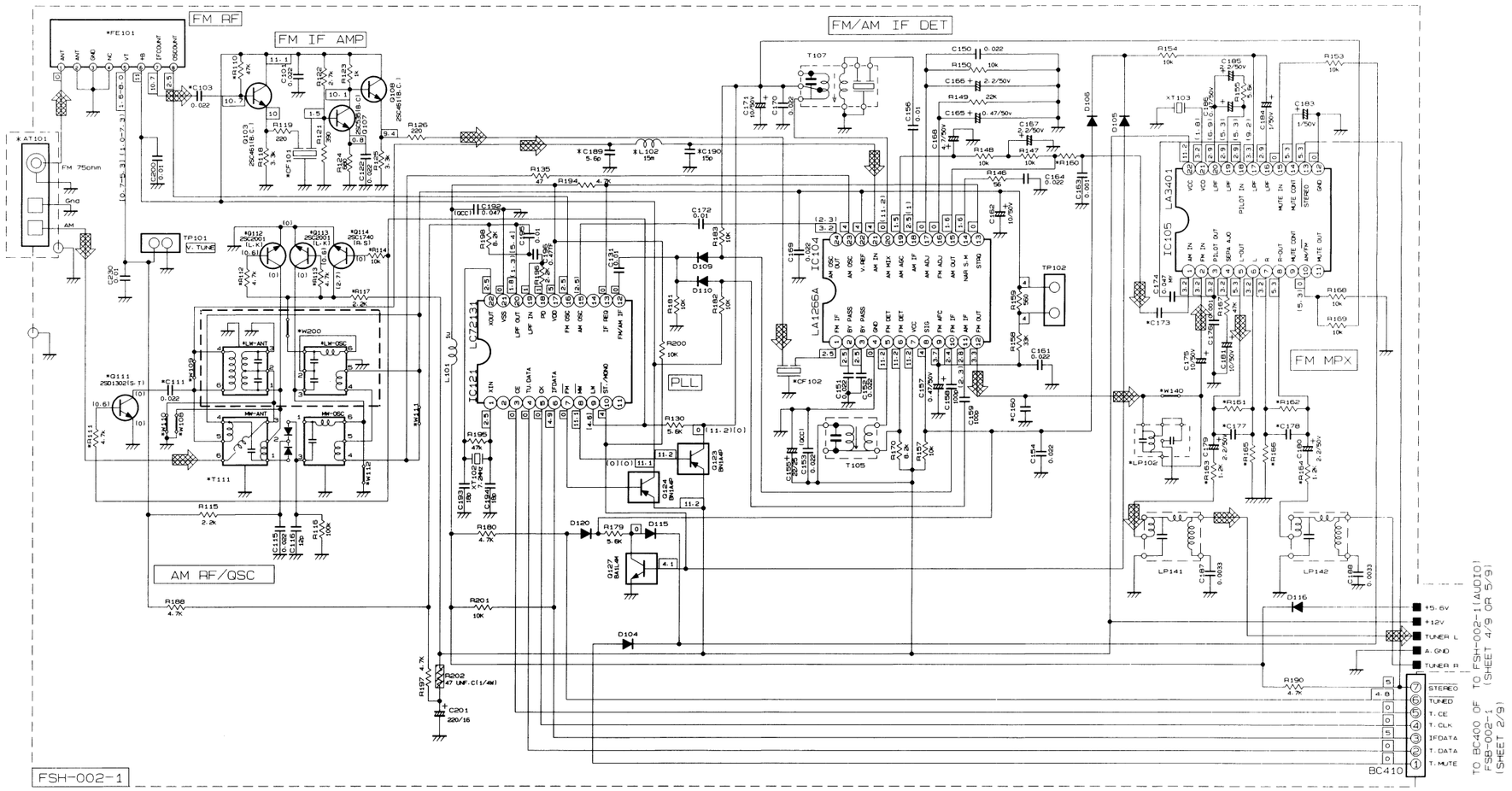
NOTES
1. VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITH NO INPUT SIGNAL CONDITION IN THE DECK MODE.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(PmpF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254T-77 TYPE
   Ⓟ POLYPROPYLENE CAPACITOR
   Ⓜ 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR-IT WOULD BE A SHORT.
   FOR CAPACITOR-IT WOULD BE AN OPEN.

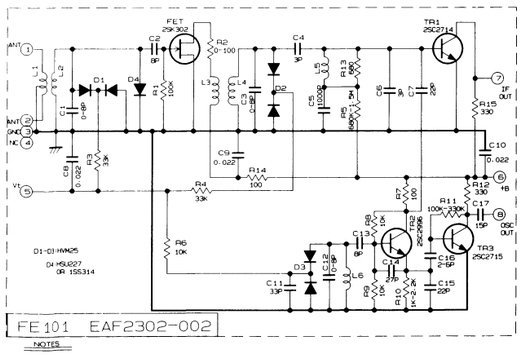
*REMARK

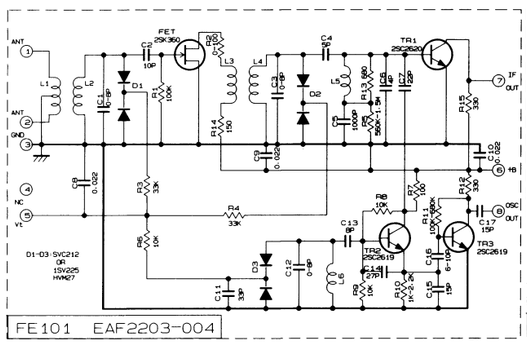
	BS·EF·EN·G·GI VX	A·U·UB·UP·US UT
R365·R366	47	SHORT
R383·R384	47	SHORT
C319	0.01	NONE
R298	560	NONE
C327	330P	NONE
C328	0.022	NONE
Q330	2SC1740(R.S)	NONE
Q331	DTA144ES	NONE
D303	1SS254	NONE
K321·K392	ENZB101-011T	SHORT

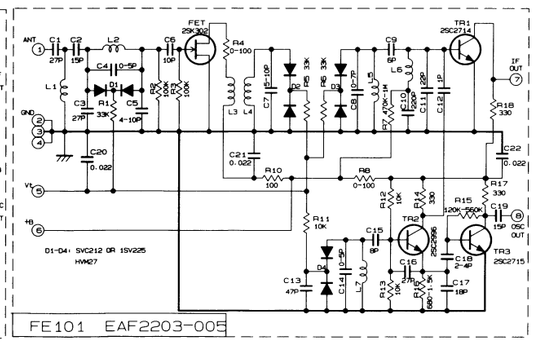


■ Tuner Section









NOTES

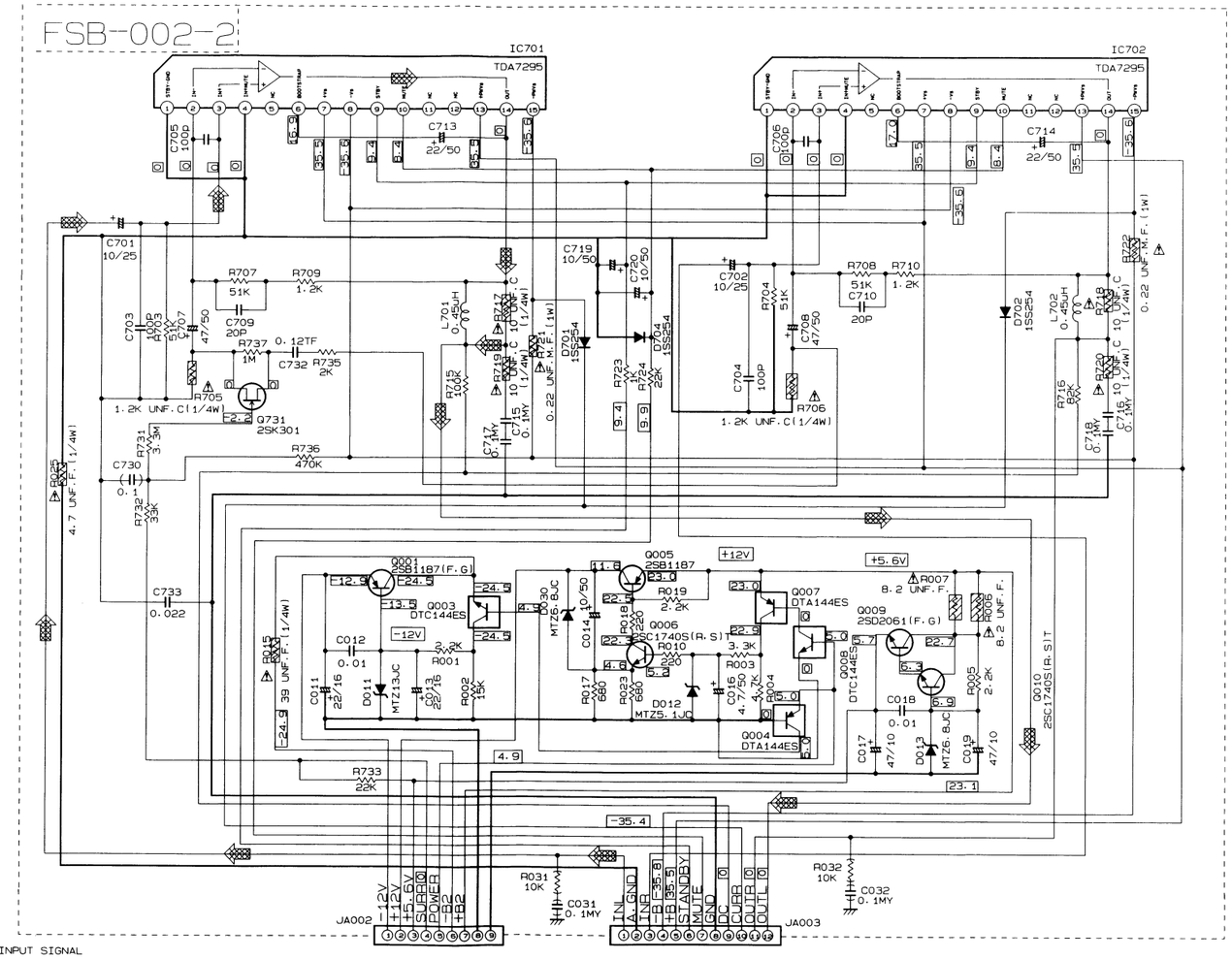
1. VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITH NO INPUT SIGNAL CONDITION IN TUNER MODE.
   □ FM AUTO LOWER EDGE ( )MW LOWER EDGE [ ]LW UPPER EDGE
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254T-77 TYPE
   (PP) POLYPROPYLENE CAPACITOR
   (M) 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR IT WOULD BE A SHORT.
   FOR CAPACITOR IT WOULD BE AN OPEN.

*REMARKS

	EF,EN,G,GI	VX	A	U,UB,UP,US,UT	BS
FE101	EAF2203-005	EAF2302-002	EAF2203-004	EAF2303-004	EAF2203-005
T111	EQR7121-002	EQR7121-002	EQR7121-004	EQR7121-004	EQR7121-002
CF101-CF102	ECB2118-007A	ECB2118-007A	ECB2123-006A	ECB2123-006A	ECB2118-007A
LP102	USED	USED	NONE	NONE	USED
Q111-Q114	USED	USED	NONE	NONE	USED
R110	NONE	USED	NONE	NONE	NONE
R111-R114	USED	USED	NONE	NONE	USED
R117	USED	USED	NONE	NONE	USED
W200	USED	USED	NONE	NONE	USED
R160	15K	15K	2.0K	2.0K	2.0K
R161,R162	220K	220K	120K	120K	220K
R165,R166	270K	270K	270K	180K	270K
C103	SHORTED	USED	SHORTED	SHORTED	SHORTED
C111	USED	USED	NONE	NONE	USED
C160	220P	220P	100P	100P	220P
C177,C178	330P	330P	560P	560P	330P
W108-W112	NONE	NONE	USED	NONE	NONE
W140	USED	USED	NONE	NONE	USED
AT101	EMB41YV-302K	EMB41YV-302K	FMMB10YV-401K	FMMB10YV-401K	EMB41YV-302K
C173	0.018	0.018	0.082	0.082	0.082
C189-C191	USED	USED	NONE	NONE	USED
L102	USED	USED	SHORTED	SHORTED	USED
C163,C164	1.5K	1.5K	1.2K	1.2K	1.5K

CA-D3S	CA-D3S

■ Power Amplifier & DC Regulator section



TO JB002 OF FSH-002-1 (SHEET 4/9 OR 5/9)

TO JB003 OF FSH-002-1 (SHEET 4/9 OR 5/9)

NOTES

1. VOLTAGES ARE DC-MEASURED USING AN OSCILLOSCOPE WITH NO INPUT SIGNAL CONDITION.
2. UNLESS OTHERWISE SPECIFIED
   ALL RESISTORS ARE 1/6W ± 5% CARBON RESISTOR.
   ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS254T-77 TYPE
   (PP) POLYPROPYLENE CAPACITOR
   (M) 50V ±5% MYLAR CAPACITOR OR 50V ±5% THIN FILM CAPACITOR
3. THOSE PART WITH BRACKET IS NOT USED.
   FOR RESISTOR: IT WOULD BE A SHORT.
   FOR CAPACITOR: IT WOULD BE AN OPEN.

PARTS LIST

※ **All printed circuit boards and its assemblies are not available as service parts.**

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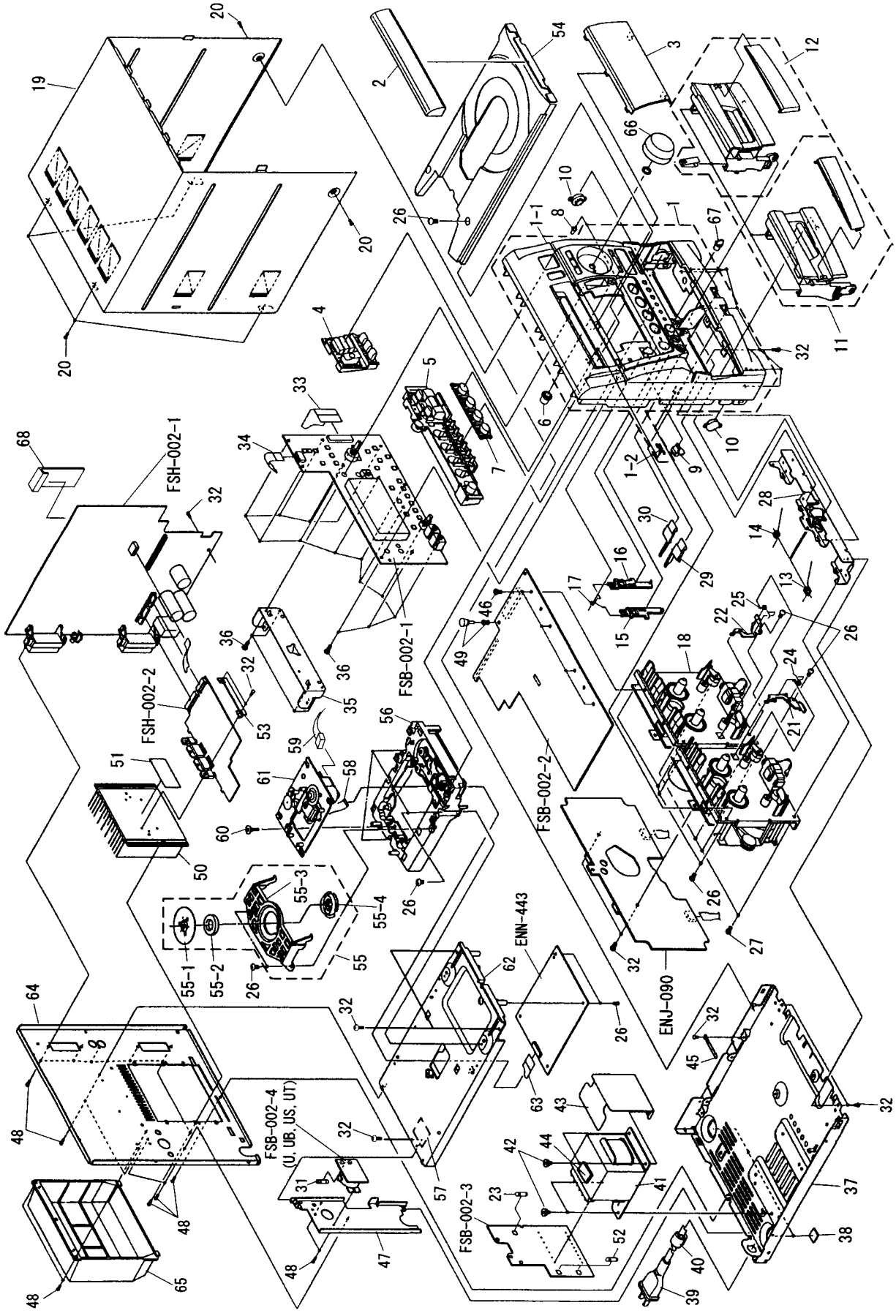
General Exploded View and Parts List

Block No. M 1 M M



⚠	Item	Part Number	Part Name	Q'ty	Description	Area
⚠		FSTP66U8-47A	POWER TRANS	1		U,UB,UP,US,UT
	42	E408279-001	SPECIAL SCREW	4	Power Trans.	
	43	FSMA3003-001	SHIELD PLATE	1		
	44	VYSH105-033	FELT SPACER	1		
	45	FSKZ4002-001	WIRE HOLDER	1		
	46	SBST2604Z	SCREW	1		
	47	FSKL3010-001	CD SUPPORT BKT	1		
	48	E73273-003	SPECIAL SCREW	13		
		E73273-003	SPECIAL SCREW	2		U,UB,US,UT
	49	FSYS4002-001	PLASTIC RIVET	1		
	50	FSJC3008-002	HEAT SINK	1		
	51	FSYH4042-001	THERMAL TAPE	1		
⚠	52	QMF51E2-1R2J1BS	FUSE	4	F501,502	BS
	53	FSKL4009-001	IC BRACKET	1		
	54	E102358-332SS	CD TRAY	1		
	55	E306837-005	CLAMPER ASSY	1		
	55-1	E306836-003	YOKE PLATE	1		
	55-2	E74897-002	MAGNET	1		
	55-3	E26756-002	CLAMPER BASE	1		
	55-4	E306835-001	CD CLAMPER	1		
	56	----------	LOADING MECHANISM ASSY	1	See page 2-8	
	57	E406507-001	CAUTION LABEL	1		
	58	EWR615M-08BBJ2	FLAT WIRE ASSY	1		
	59	EWS266-B410	SOCKET WIRE	1		
	60	E406293-001	SPECIAL SCREW	1		
	61	----------	CD MECHANISM ASSY	1	See page 2-10	
	62	FSJD1004-002	CD CHASSIS	1		
	63	VWF1207-12TTB	FLAT WIRE	1	J801	
	64	FSFC2002-006	REAR PANEL	1		BS,EF,EFN,G,GI
		FSFC2002-007	REAR PANEL	1		A
		FSFC2002-008	REAR PANEL	1		U,UB,US,UT
		FSFC2002-009	REAR PANEL	1		UP
		FSFC2002-010	REAR PANEL	1		VX
	65	E207356-223SS	REAR COVER	1		
	66	E309501-001	VOL.KNOB	1		
	67	E407233-003	VOLUME KNOB	1	MIC	U,UB,UP,US,UT
	68	FSKS4001-001	SHEET	1		
	-	E61029-005	NUMBER LABEL	1		
	-	FSYN9009-001	RATING LABEL	1		UT
	-	FSYN9010-001	RATING LABEL	1		U
	-	E408843-001	APROVAL LABEL	1		EN
	-	E70891-001	CLASS 1 LABEL	1		Except UP
	-	E75139-004	NAME LABEL	1		UT
	-	QZL1031-101	LABEL	1		EF

⚠ : Safety Parts

The Marks for Designated Areas

A	Australia	BS	the U.K.	EF	Continental Europe	EN	Scandinavia
G	Germany	GI	Itary	U	Universal Type	UB	Hong Kong
UP	Korea	US	Singapore	UT	Taiwan	VX	East Europe

No mark indicates all area.

■ Parts List

Block No. M 1 M M

⚠	Item	Part Number	Part Name	Q'ty	Description	Area
	1	EFP-CAD3SE(S)	FRONT PANEL ASSY	1		A,BS,EF,EN,GI,G,VX
		EFP-CAD3SU(S)	FRONT PANEL ASSY	1		U,UB,UP,US,UT
	1-1	FSJC1017-001	FRONT PANEL	1		A,BS,EF,EN,G,GI,VX
		FSJC1017-002	FRONT PANEL	1		U,UB,UP,US,UT
	1-2	E406971-221	JVC MARK	1		
	2	FSJC2006-001	FITTING	1		
	3	FSJD2010-001	WINDOW SCREEN	1	Amp.	
	4	FSXP2013-001	PUSH BUTTON	1	CD	
	5	FSXP2014-001	PUSH BUTTON	1	POWER	
	6	FSJK4004-001	REMOTE LENS	1		
	7	FSXP3027-001	PUSH BUTTON	1	SOURCE	A,BS,EF,EN,GI,G,VX
		FSXP3027-002	PUSH BUTTON	1	SOURCE	U,UB,UP,US,UT
	8	FSJD4011-001	INDICATOR	1	Set Button	
	9	FSJD4010-001	INDICATOR	1	STANDBY	
	10	VYH7779-00B	DAMPER	1		
	11	FSJT2011-00A	CASSETTE ASSY	1	(A)	
	12	FSJT2012-00A	CASSETTE ASSY	1	(B)	
	13	FSKW4007-002	HOLDER SPRING	1		
	14	FSKW4008-002	HOLDER SPRING	1		
	15	E309480-001SS	EJECT LEVER	1		
	16	E309479-001SS	EJECT LEVER	1		
	17	E408742-001SS	SPRING	1		
	18	----------	CASSETTE MECHANISM ASSY	1	See page 2-5	
	19	E103056-002	METAL COVER	1		
	20	SDSG3006M	TAPPING SCREW	6		
	21	E309477-002SS	SAFETY LEVER	1		
	22	E309478-002SS	SAFETY LEVER	1		
⚠	23	QMF51E2-1R0J1BS	FUSE	1	F001	BS
⚠		QMF51E2-2R0	FUSE	1	F001	U,UB,US,UT
	24	E407801-002	SPRING	1		
	25	E407802-002	SPRING	1		
	26	SBSF3008Z	TAPPING SCREW	6		
	27	SBST3006Z	TAPPING SCREW	4		
	28	E208588-001	HOLDER BKT	1		
	29	E309496-001	EJECT BUTTON	1	Deck A	
	30	E309497-001	EJECT BUTTON	1	Deck B	
⚠	31	QMF51E2-1R0J1	FUSE	1	F002	U,UB,US,UT
	32	SBSG3008Z	TAPPING SCREW	8		
	33	VWF1226-15TTBX	WIRE	1	JA400	
	34	VWF1209-21TTB	WIRE	1	CN400	
	35	FSKL3009-002	STAY BRACKET	1		
	36	SDSF2608Z	SCREW	15		
	37	E102616-008SS	CHASSIS BASE	1		
	38	E75896-006	FELT SPACER	1	Rear foot	
⚠	39	EMP7000-200	POWER CORD	1		UP
⚠		QMP25F0-244	POWER CORD	1		A
⚠		QMP5530-0085BS	POWER CORD	1		BS,UB
⚠		QMP7520-200	POWER CORD	1		U,UT
⚠	40	QHS3876-163	CORD STOPPER	1		BS
⚠	41	FSTP66M8-47A	POWER TRANS	1		A,EF,EN,G,GI,VX,BS

Block No. M 2 M M

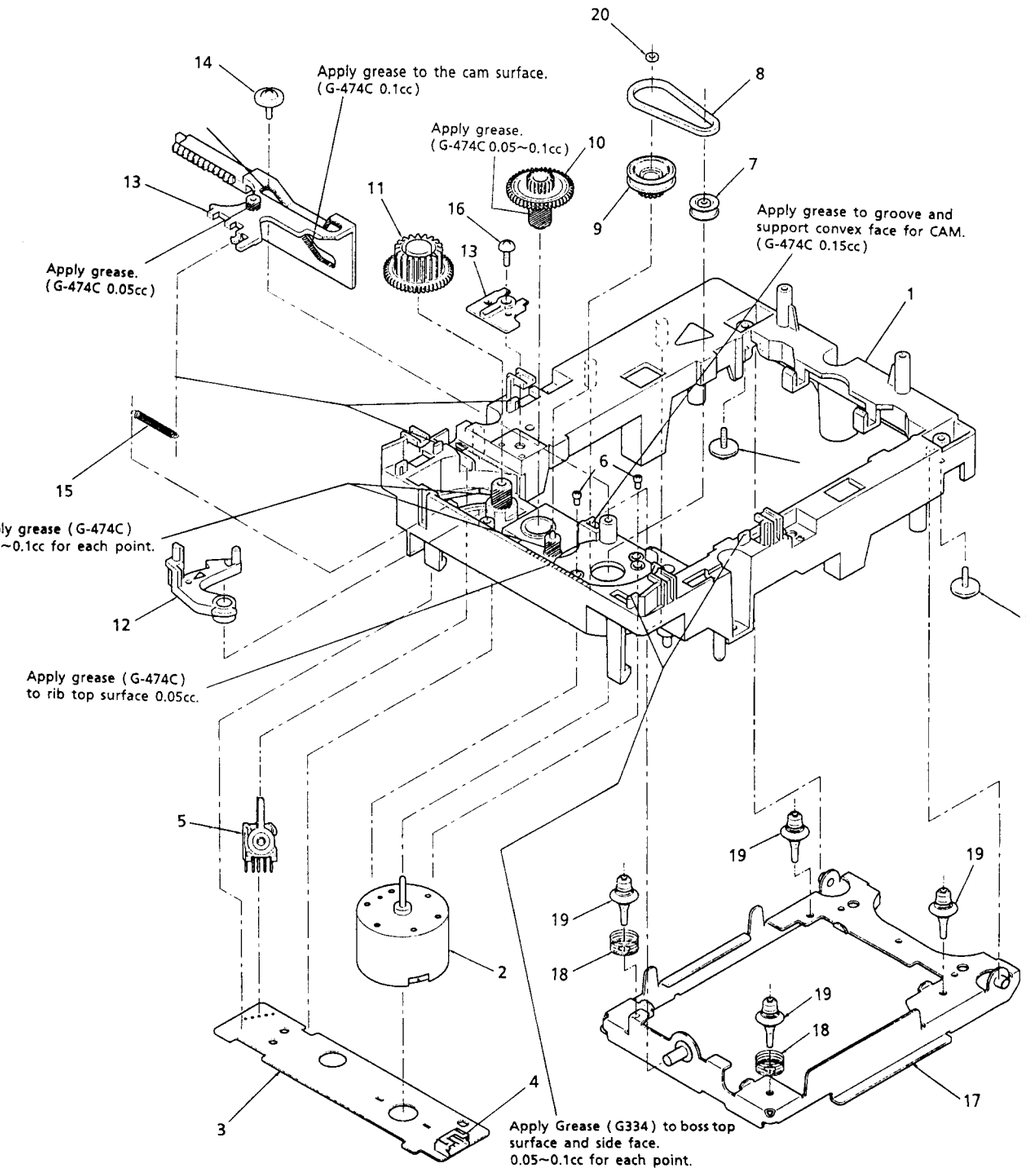
■ Parts List (Cassette Mechanism Ass'y)

⚠	Item	Part Number	Part Name	Q'ty	Description	Area
	1	VKM3835-00A	FLYWHEEL BRACKET	1		
	2	MMI-6H2LWK	DC MOTOR	1		
	3	VKR4740-002	MOTOR PULLEY	1		
	4	SPSP2603Z	WOOD SCREW	1		
	5	VKW5177-002	SPRING	1		
	6	VKS5524-001	THRUST GUIDE	1		
	7	VKR4741-001	IDLER PULLEY	1		
	8	VKF3202-00A	FLYWHEEL	2		
	9	VKF3200-00A	FLYWHEEL	2		
	10	VKB3000-161	CAPSTAN BELT	1		
	11	VKB3000-162	CAPSTAN BELT	1		
	12	VKS5523-00C	MAIN PULLY ASSY	1		
	13	VKB3000-167	REEL BELT	2		
	14	VKS1150-001	CONTROL CAM	2		
	15	VKW5170-002	SPRING	2		
	16	SBSF2608Z	TAPPING SCREW	6		
	17	VKS3719-001	RING	2		
	18	VKS5525-00B	TRIGGER ARM	2		
	19	VKS1151-00A	CHASSIS BASE ASSY	2		
	20	VGP2401-00A	SOLENOID	2		
	21	SDST2612Z	SCREW	2		
	22	VKS3714-00B	F.F/REW.ARM	2		
	23	VKW5173-001	SPRING	2		
	24	VKW5202-002	SPRING	2		
	25	VKS5519-001	IDLER GEAR	2		
	26	VKZ4690-002	MAGNET	2		
	27	VKS3707-002	REEL GEAR	2		
	28	VKW5162-002	SPRING	4		
	29	VKS3708-002	REEL CAP	2		
	30	VKS2261-001	REEL STOPPER	2		
	31	VKW5178-001	BRAKE SPRING	2		
	32	VKS2255-001	DIRECTION LEVER	2		
	33	VKW5163-001	SPRING	2		
	34	VKP4232-00A	PINCH ROLLER	2		
	35	VKP4231-00B	PINCH ROLLER	2		
	36	VKY4670-001	SPRING	2		
	37	SDSR2004Z	SCREW	6		
	38	VKL7809-00A	BASE PLATE	2		
	39	VKW5167-002	SPRING	2		
	40	VKS3744-00A	HED HOLDER ASSY	2		
	41	VKS5540-00A	PLAYBACK HEAD ASSY	2		
	41	VKS5541-00A	RECORD & PLAYBACK HEAD	2		
	42	VKZ4629-003	SCREW	2		
	43	VKW5126-001	HEAD SPRING	2		
	44	VKS2257-002	ACTION LEVER	2		
	45	VKW5209-001	SPRING	2		
	46	MXS00220MVL0	CASSETTE SWITCH	7		
	47	DN6851-HI	I.C(M)	2		
	48	VKS3630-001MM	I.C.PROTECTOR	2		
	49	VMC0314-P08	CONNECT TERMINAL	2		
	50	QSEC001-E03	LEVER SWITCH	2		
	51	1SR139-100	SI.DIODE	2		
	52	VMSC04-11A13K		1		

Loading Mechanism Ass'y and Parts List

Block No. M 3 M M

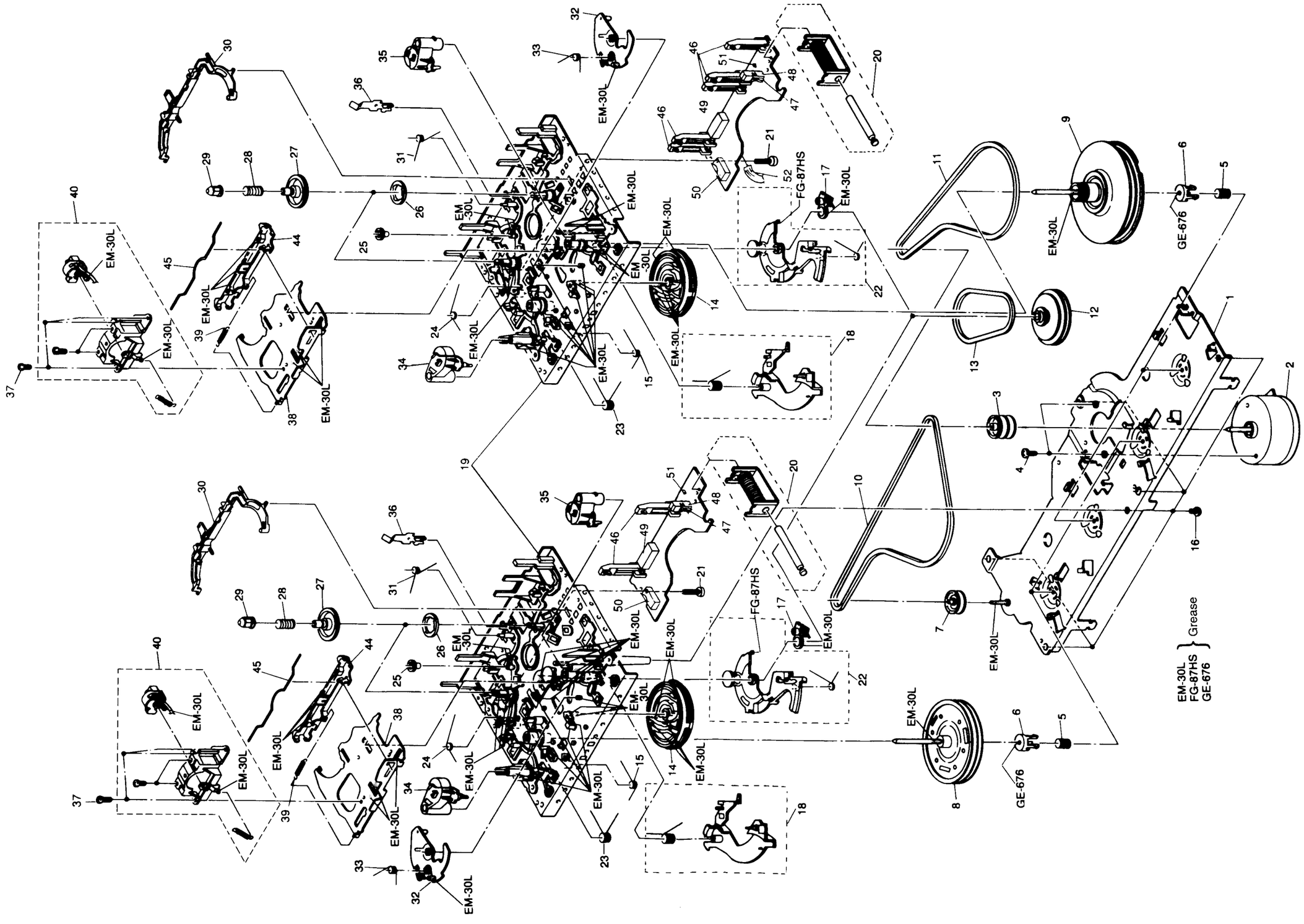
■ Grease Point



Cassette Mechanism Ass'y and Parts List

Block No. M 2 M M

■ Grease Point



■ Parts List (Loading Mechanism Ass'y)

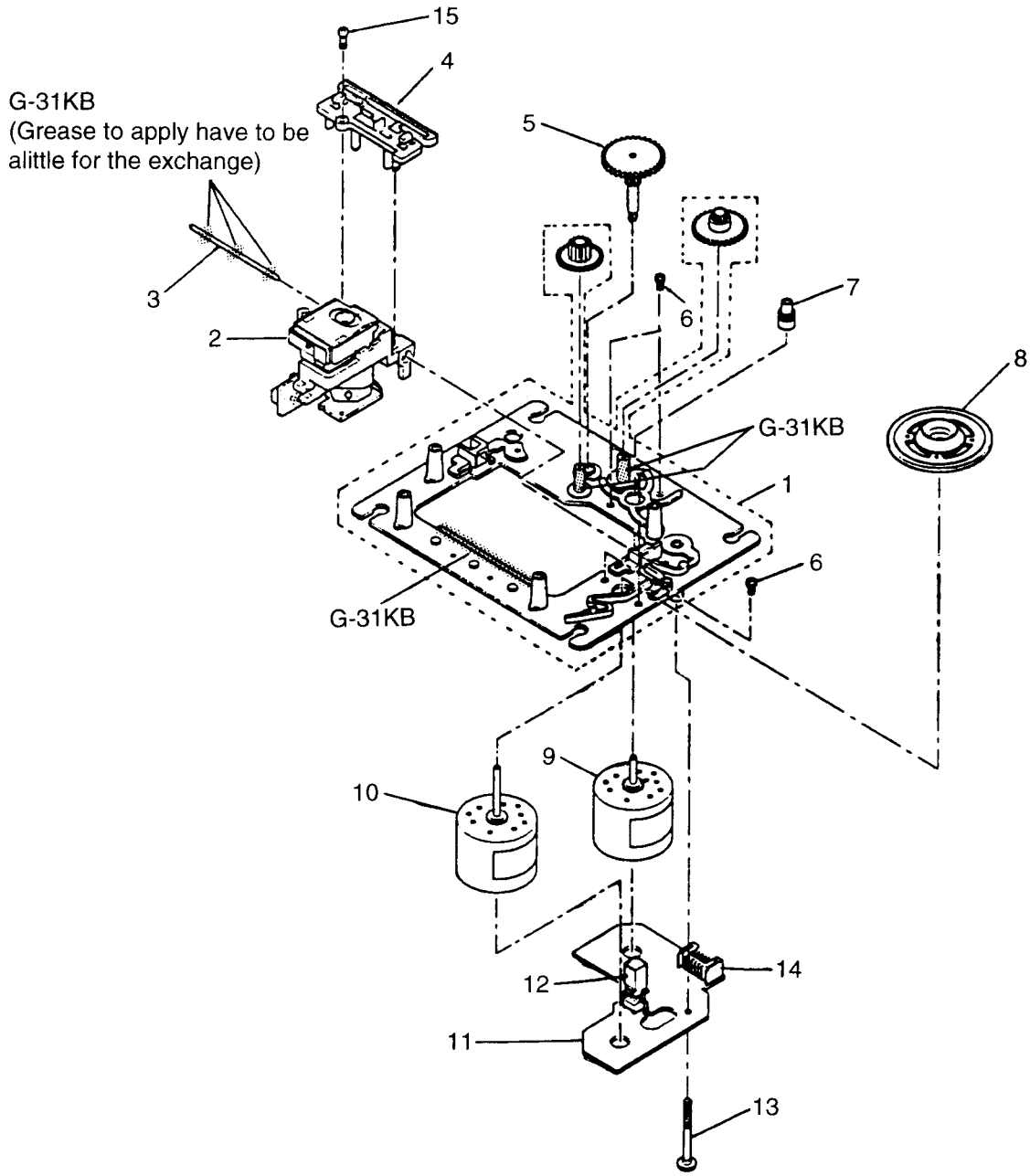
Block No. M 3 M M

Item	Part Number	Part Name	Q'ty	Description	Area
1	E102357-221	LOADING BASE	1		
2	MMN-6F1LB8K	MOTOR	1		
3	EMW10264-002	CIRCUIT BOARD	1		
4	EMV5109-005B	5P PLUG ASSY	1		
5	ESS1200-002	SWITCH	1		
6	SPSK2640Z	SCREW	2		
7	E75984-221	MOTOR PULLEY	1		
8	E75950-002	BELT	1		
9	E75985-221	GEAR (1)	1		
10	E75986-221SS	GEAR (2)	1		
11	E75987-221SS	GEAR (3)	1		
12	E307162-331	LEVER	1		
13	E307252-331	CAM-PLATE	1		
14	E65923-003	SCREW	3		
15	E75989-001	SPRING	1		
16	SBSF3008Z	SCREW	1		
17	E307179-332	ELEVATOR BASE ASSY	1		
18	E406871-001	SPRING	2		
19	E406294-002	INSULATOR	4	BLACK	
20	E60912-005SS	SPEED NUT	1		

CD Mechanism Ass'y and Parts List

Block No. M 4 M M

■ Grease Point



■ Parts List (CD Mechanism Ass'y)

Item	Part Number	Part Name	Q'ty	Description	Area
1	E102501-221SS	MECHANISM BASE ASSY	1		
2	OPTIMA-6S	PICK UP ASSY	1		
3	E406777-001	SHAFT	1		
4	E307746-001	CD RACK	1		
5	E307745-221SS	GEAR (3)	1		
6	SDSP2003N	SCREW	4		
7	E406750-001	PINION GEAR	1		
8	E75807-302	TURN TABLE	1		
9	MDN-4RA3ETA-1	FEED MOTOR	1		
10	E406783-001	SPINDLE MOTOR	1		
11	EMW10190-001(S)	CIRCUIT BOARD	1		
12	ESB1100-005	LEAF SWITCH	1		
13	E75832-001	SCREW	1		
14	EMV5109-006B	PLUG ASSY	1	6PIN	

Electrical Parts List

■ Tuner & Tape, Deck Mechanism Control P. C. Board (FSH-002)

TRANSISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q011	2SA934(Q,R)	SI.TRANSIST ROHM	
	Q012	DTC114YS	DIGITAL TRA ROHM	
	Q013	DTC114YS	DIGITAL TRA ROHM	
	Q103	2SC461	SI.TRANSIST	
	Q107	2SC535	SI.TRANSIST HITACHI	
	Q108	2SC461	SI.TRANSIST	
	Q111	2SD1302	SI.TRANSIST MATSUSHITA	BS
	Q111	2SD1302	SI.TRANSIST MATSUSHITA	EF
	Q111	2SD1302	SI.TRANSIST MATSUSHITA	EN
	Q111	2SD1302	SI.TRANSIST MATSUSHITA	G
	Q111	2SD1302	SI.TRANSIST MATSUSHITA	GI
	Q111	2SD1302	SI.TRANSIST MATSUSHITA	VX
	Q112	2SC2001(L,K)	SI.TRANSIST	BS
	Q112	2SC2001(L,K)	SI.TRANSIST	EF
	Q112	2SC2001(L,K)	SI.TRANSIST	EN
	Q112	2SC2001(L,K)	SI.TRANSIST	G
	Q112	2SC2001(L,K)	SI.TRANSIST	GI
	Q112	2SC2001(L,K)	SI.TRANSIST	VX
	Q113	2SC2001(L,K)	SI.TRANSIST	BS
	Q113	2SC2001(L,K)	SI.TRANSIST	EF
	Q113	2SC2001(L,K)	SI.TRANSIST	EN
	Q113	2SC2001(L,K)	SI.TRANSIST	G
	Q113	2SC2001(L,K)	SI.TRANSIST	GI
	Q113	2SC2001(L,K)	SI.TRANSIST	VX
	Q114	2SC1740S(R,S)	SI.TRANSIST ROHM	BS
	Q114	2SC1740S(R,S)	SI.TRANSIST ROHM	EF
	Q114	2SC1740S(R,S)	SI.TRANSIST ROHM	EN
	Q114	2SC1740S(R,S)	SI.TRANSIST ROHM	G
	Q114	2SC1740S(R,S)	SI.TRANSIST ROHM	GI
	Q114	2SC1740S(R,S)	SI.TRANSIST ROHM	VX
	Q123	BN1A4P	DIGITAL TRA NEC	
	Q124	BN1A4P	DIGITAL TRA NEC	
	Q127	BA1L4M	DIGITAL TRA NEC	
	Q203	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q204	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q211	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q212	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q389	2SD2144S(VW)	SI.TRANSIST ROHM	
	Q390	2SD2144S(VW)	SI.TRANSIST ROHM	
	Q741	2SC945A	SI.TRANSIST NEC	
	Q742	2SC945A	SI.TRANSIST NEC	
	Q743	2SA933S(RS)	SI.TRANSIST	
	Q744	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q745	2SD1302	SI.TRANSIST MATSUSHITA	
	Q746	2SD1302	SI.TRANSIST MATSUSHITA	
	Q801	2SC2001(L,K)	SI.TRANSIST	U
	Q801	2SC2001(L,K)	SI.TRANSIST	UB
	Q801	2SC2001(L,K)	SI.TRANSIST	UP
	Q801	2SC2001(L,K)	SI.TRANSIST	US
	Q801	2SC2001(L,K)	SI.TRANSIST	UT
	Q802	2SC2001(L,K)	SI.TRANSIST	U
	Q802	2SC2001(L,K)	SI.TRANSIST	UB
	Q802	2SC2001(L,K)	SI.TRANSIST	UP
	Q802	2SC2001(L,K)	SI.TRANSIST	US
	Q802	2SC2001(L,K)	SI.TRANSIST	UT
	Q803	2SC2001(L,K)	SI.TRANSIST	U
	Q803	2SC2001(L,K)	SI.TRANSIST	UB
	Q803	2SC2001(L,K)	SI.TRANSIST	UP
	Q803	2SC2001(L,K)	SI.TRANSIST	US
	Q803	2SC2001(L,K)	SI.TRANSIST	UT
	Q804	DTA144ES	DIGITAL TRA ROHM	U
	Q804	DTA144ES	DIGITAL TRA ROHM	UB
	Q804	DTA144ES	DIGITAL TRA ROHM	UP
	Q804	DTA144ES	DIGITAL TRA ROHM	US
	Q804	DTA144ES	DIGITAL TRA ROHM	UT
	Q805	DTC144ES	DIGITAL TRA ROHM	U
	Q805	DTC144ES	DIGITAL TRA ROHM	UB
	Q805	DTC144ES	DIGITAL TRA ROHM	UP
	Q805	DTC144ES	DIGITAL TRA ROHM	US
	Q805	DTC144ES	DIGITAL TRA ROHM	UT
	Q806	DTA144ES	DIGITAL TRA ROHM	U
	Q806	DTA144ES	DIGITAL TRA ROHM	UB
	Q806	DTA144ES	DIGITAL TRA ROHM	UP
	Q806	DTA144ES	DIGITAL TRA ROHM	US
	Q806	DTA144ES	DIGITAL TRA ROHM	UT
	Q807	2SD2144(VW)	SILICON	
	Q808	2SD2144(VW)	SILICON	
	Q809	DTA144ES	DIGITAL TRA ROHM	
	Q871	DTA144ES	DIGITAL TRA ROHM	
	Q872	DTC114ES	DIGITAL TRA ROHM	
	Q873	2SB1187(F,G)	SI.TRANSIST ROHM	
	Q874	2SC945A	SI.TRANSIST NEC	
	Q901	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q902	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q911	DTC123YS	SI.TRANSIST ROHM	
	Q912	DTC123YS	SI.TRANSIST ROHM	
	Q913	2SA934(Q,R)	SI.TRANSIST ROHM	
	Q914	2SA934(Q,R)	SI.TRANSIST ROHM	
	Q921	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q922	2SA933S(RS)	SI.TRANSIST	

I. C. S.

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC104	LA1266A	I.C(MONO-AN SANYO	
	IC105	LA3401	I.C(MONO-AN SANYO	
	IC121	LC72131	I.C(M) SANYO	
	IC292	BA8221AN	I.C(MONO-AN ROHM	
	IC352	HA12136A	I.C(MONO-AN HITACHI	
	IC801	TDA7318	I.C(M) 0062	
	IC802	BA15218N	I.C(MONO-AN ROHM	
	IC803	BA15218N	I.C(MONO-AN ROHM	U
	IC803	BA15218N	I.C(MONO-AN ROHM	UB
	IC803	BA15218N	I.C(MONO-AN ROHM	UP
	IC803	BA15218N	I.C(MONO-AN ROHM	US
	IC803	BA15218N	I.C(MONO-AN ROHM	UT
	IC831	BA7725S	I.C(MONO-AN ROHM	U
	IC831	BA7725S	I.C(MONO-AN ROHM	UB
	IC831	BA7725S	I.C(MONO-AN ROHM	UP
	IC831	BA7725S	I.C(MONO-AN ROHM	US
	IC831	BA7725S	I.C(MONO-AN ROHM	UT
	IC891	BU9251S	I.C(M) ROHM	U
	IC891	BU9251S	I.C(M) ROHM	UB
	IC891	BU9251S	I.C(M) ROHM	UP
	IC891	BU9251S	I.C(M) ROHM	US
	IC891	BU9251S	I.C(M) ROHM	UT
	IC901	TC74HC595AP	I.C(DIGI-MO TOSHIBA	
	IC902	TC74HC595AP	I.C(DIGI-MO TOSHIBA	
	IC940	TA8409F	I.C(MONO-AN TOSHIBA	

DIODES

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
⚠	D001	10E2-FD	DIODE NIHONINTER	
⚠	D002	10E2-FD	DIODE NIHONINTER	
⚠	D003	10E2-FD	DIODE NIHONINTER	
⚠	D004	10E2-FD	DIODE NIHONINTER	
	D005	1SR35-100	SI.DIODE ROHM	
	D007	1SR35-100	SI.DIODE ROHM	
	D009	1SR35-100	SI.DIODE ROHM	
	D010	1SR35-100	SI.DIODE ROHM	
	D014	1SR139-200	SI.DIODE ROHM	
	D015	1SR139-200	SI.DIODE ROHM	
	D016	MTZ30JC	ZENER DIODE ROHM	
	D017	MTZ6.2JC	ZENER DIODE ROHM	
	D018	MTZ5.1JC	ZENER DIODE ROHM	
	D019	1SS254	DIODE	
	D020	1SS254	DIODE	
	D021	1SR35-100	SI.DIODE ROHM	
	D022	1SR35-100	SI.DIODE ROHM	
	D023	1SR35-100	SI.DIODE ROHM	
	D104	1SS254	DIODE	
	D105	1SS254	DIODE	
	D106	1SS254	DIODE	
	D109	1SS254	DIODE	
	D110	1SS254	DIODE	
	D115	1SS254	DIODE	
	D116	1SS254	DIODE	
	D120	1SS254	DIODE	
	D339	1SS254	DIODE	
	D741	1SS254	DIODE	
	D742	1SS254	DIODE	
	D801	MTZ9.1JC	ZENER DIODE ROHM	
	D802	1SS254	DIODE	
	D871	MTZ6.8JB	ZENER DIODE ROHM	
	D872	MTZ3.0JB	ZENER DIODE ROHM	
	D897	MTZ5.1JC	ZENER DIODE ROHM	U
	D897	MTZ5.1JC	ZENER DIODE ROHM	UB
	D897	MTZ5.1JC	ZENER DIODE ROHM	UP
	D897	MTZ5.1JC	ZENER DIODE ROHM	US
	D897	MTZ5.1JC	ZENER DIODE ROHM	UT
	D898	MTZ5.1JB	ZENER DIODE ROHM	
	D899	MTZ6.2JA	ZENER	
	D901	1SS254	DIODE	
	D902	1SS254	DIODE	
	D903	1SS254	DIODE	
	D904	1SS254	DIODE	
	D911	1SR35-100	SI.DIODE ROHM	
	D941	MTZ6.2JC	ZENER DIODE ROHM	

⚠ : SAFETY PARTS

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C001	QETM1HM-228	2200MF 50V E.CAPACITO	
	C002	QETM1HM-228	2200MF 50V E.CAPACITO	
	C003	QFN82AJ-103	0.01MF 100V MYLAR CAPA	A
	C003	QFN82AJ-103	0.01MF 100V MYLAR CAPA	U
	C003	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UB
	C003	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UP
	C003	QFN82AJ-103	0.01MF 100V MYLAR CAPA	US
	C003	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UT
	C003	QFV82AJ-104	0.1MF 100V THIN FILM	BS
	C003	QFV82AJ-104	0.1MF 100V THIN FILM	EF
	C003	QFV82AJ-104	0.1MF 100V THIN FILM	EN
	C003	QFV82AJ-104	0.1MF 100V THIN FILM	G
	C003	QFV82AJ-104	0.1MF 100V THIN FILM	GI
	C003	QFV82AJ-104	0.1MF 100V THIN FILM	VX
	C004	QFN82AJ-103	0.01MF 100V MYLAR CAPA	A
	C004	QFN82AJ-103	0.01MF 100V MYLAR CAPA	U
	C004	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UB
	C004	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UP
	C004	QFN82AJ-103	0.01MF 100V MYLAR CAPA	US
	C004	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UT

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C004	QFV82AJ-104	0.1MF 100V THIN FILM	BS
	C004	QFV82AJ-104	0.1MF 100V THIN FILM	EF
	C004	QFV82AJ-104	0.1MF 100V THIN FILM	EN
	C004	QFV82AJ-104	0.1MF 100V THIN FILM	G
	C004	QFV82AJ-104	0.1MF 100V THIN FILM	GI
	C004	QFV82AJ-104	0.1MF 100V THIN FILM	VX
	C005	QFN82AJ-103	0.01MF 100V MYLAR CAPA	A
	C005	QFN82AJ-103	0.01MF 100V MYLAR CAPA	U
	C005	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UB
	C005	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UP
	C005	QFN82AJ-103	0.01MF 100V MYLAR CAPA	US
	C005	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UT
	C005	QFV82AJ-104	0.1MF 100V THIN FILM	BS
	C005	QFV82AJ-104	0.1MF 100V THIN FILM	EF
	C005	QFV82AJ-104	0.1MF 100V THIN FILM	EN
	C005	QFV82AJ-104	0.1MF 100V THIN FILM	G
	C005	QFV82AJ-104	0.1MF 100V THIN FILM	GI
	C005	QFV82AJ-104	0.1MF 100V THIN FILM	VX
	C006	QFN82AJ-103	0.01MF 100V MYLAR CAPA	A
	C006	QFN82AJ-103	0.01MF 100V MYLAR CAPA	U
	C006	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UB
	C006	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UP
	C006	QFN82AJ-103	0.01MF 100V MYLAR CAPA	US
	C006	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UT
	C006	QFV82AJ-104	0.1MF 100V THIN FILM	BS
	C006	QFV82AJ-104	0.1MF 100V THIN FILM	EF
	C006	QFV82AJ-104	0.1MF 100V THIN FILM	EN
	C006	QFV82AJ-104	0.1MF 100V THIN FILM	G
	C006	QFV82AJ-104	0.1MF 100V THIN FILM	GI
	C006	QFV82AJ-104	0.1MF 100V THIN FILM	VX
	C007	QFN82AJ-103	0.01MF 100V MYLAR CAPA	A
	C007	QFN82AJ-103	0.01MF 100V MYLAR CAPA	U
	C007	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UB
	C007	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UP
	C007	QFN82AJ-103	0.01MF 100V MYLAR CAPA	US
	C007	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UT
	C007	QFV82AJ-104	0.1MF 100V THIN FILM	BS
	C007	QFV82AJ-104	0.1MF 100V THIN FILM	EF
	C007	QFV82AJ-104	0.1MF 100V THIN FILM	EN
	C007	QFV82AJ-104	0.1MF 100V THIN FILM	G
	C007	QFV82AJ-104	0.1MF 100V THIN FILM	GI
	C007	QFV82AJ-104	0.1MF 100V THIN FILM	VX
	C008	QFN82AJ-103	0.01MF 100V MYLAR CAPA	A
	C008	QFN82AJ-103	0.01MF 100V MYLAR CAPA	U
	C008	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UB
	C008	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UP
	C008	QFN82AJ-103	0.01MF 100V MYLAR CAPA	US
	C008	QFN82AJ-103	0.01MF 100V MYLAR CAPA	UT
	C008	QFV82AJ-104	0.1MF 100V THIN FILM	BS
	C008	QFV82AJ-104	0.1MF 100V THIN FILM	EF
	C008	QFV82AJ-104	0.1MF 100V THIN FILM	EN
	C008	QFV82AJ-104	0.1MF 100V THIN FILM	G
	C008	QFV82AJ-104	0.1MF 100V THIN FILM	GI
	C008	QFV82AJ-104	0.1MF 100V THIN FILM	VX
	C009	QETM1VM-228J7	2200MF 35V E.CAPACITO	
	C010	QETM1VM-227	220MF 35V ELECTRO	
	C020	QETB1JM-107	100MF 63V AL E.CAPAC	
	C021	QETC1HM-476	47MF 50V E.CAPACITO	
	C022	QETN1HM-226Z	22MF 50V AL E.CAPAC	
	C023	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C024	QETN1HM-226Z	22MF 50V AL E.CAPAC	
	C025	QETN1HM-225Z	2.2MF 50V AL E.CAPAC	
	C026	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	
	C101	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C103	QCHB1EZ-223	0.022MF 25V CER.CAPACI	VX
	C111	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C113	QCC21EM-473	0.047MF 25V CER.CAPACI	
	C115	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	A
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	BS
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	EF
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	EN
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	G
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	GI
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	U
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	UB
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	UP
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	US
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	UT
	C116	QCS21HJ-120	12PF 50V CER.CAPACI	VX
	C122	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C131	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C150	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C151	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C152	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C153	QCC21EM-223	0.022MF 25V CER.CAPACI	
	C154	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C155	QETC1EM-226ZM	22MF 25V E.CAPACITO	
	C156	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C157	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	
	C158	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C159	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C160	QCS21HJ-101A	100PF 50V CER.CAPACI	A
	C160	QCS21HJ-101A	100PF 50V CER.CAPACI	U
	C160	QCS21HJ-101A	100PF 50V CER.CAPACI	UB
	C160	QCS21HJ-101A	100PF 50V CER.CAPACI	UP
	C160	QCS21HJ-101A	100PF 50V CER.CAPACI	US
	C160	QCS21HJ-101A	100PF 50V CER.CAPACI	UT
	C160	QCS21HJ-221	220PF 50V CER.CAPACI	BS
	C160	QCS21HJ-221	220PF 50V CER.CAPACI	EF
	C160	QCS21HJ-221	220PF 50V CER.CAPACI	EN
	C160	QCS21HJ-221	220PF 50V CER.CAPACI	G
	C160	QCS21HJ-221	220PF 50V CER.CAPACI	GI
	C160	QCS21HJ-221	220PF 50V CER.CAPACI	VX
	C161	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C162	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C163	QCY31HK-332Z	3300PF 50V CER.CAPACI	
	C164	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C165	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	
	C166	QETN1HM-225Z	2.2MF 50V AL E.CAPAC	
	C167	QETN1HM-225Z	2.2MF 50V AL E.CAPAC	
	C168	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	
	C169	QCF21HP-223A	0.022MF 50V CER.CAPACI	
	C170	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C171	QETN1HM-106Z	10MF 50V AL E.CAPAC	

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C172	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C173	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	EF
	C173	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	EN
	C173	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	G
	C173	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	GI
	C173	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	VX
	C173	QFLB1HJ-823	0.082MF 50V MYLAR CAPA	A
	C173	QFLB1HJ-823	0.082MF 50V MYLAR CAPA	BS
	C173	QFLB1HJ-823	0.082MF 50V MYLAR CAPA	U
	C173	QFLB1HJ-823	0.082MF 50V MYLAR CAPA	UB
	C173	QFLB1HJ-823	0.082MF 50V MYLAR CAPA	UP
	C173	QFLB1HJ-823	0.082MF 50V MYLAR CAPA	US
	C173	QFLB1HJ-823	0.082MF 50V MYLAR CAPA	UT
	C174	QFLB1HK-473	0.047MF 50V MYLAR CAPA	
	C175	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C176	QCY31HK-102Z	1000PF 50V CER.CAPACI	
	C177	QCS31HJ-331Z	330PF 50V CER.CAPACI	BS
	C177	QCS31HJ-331Z	330PF 50V CER.CAPACI	EF
	C177	QCS31HJ-331Z	330PF 50V CER.CAPACI	EN
	C177	QCS31HJ-331Z	330PF 50V CER.CAPACI	G
	C177	QCS31HJ-331Z	330PF 50V CER.CAPACI	GI
	C177	QCS31HJ-331Z	330PF 50V CER.CAPACI	VX
	C177	QCS31HJ-561Z	560PF 50V CER.CAPACI	A
	C177	QCS31HJ-561Z	560PF 50V CER.CAPACI	U
	C177	QCS31HJ-561Z	560PF 50V CER.CAPACI	UB
	C177	QCS31HJ-561Z	560PF 50V CER.CAPACI	UP
	C177	QCS31HJ-561Z	560PF 50V CER.CAPACI	US
	C177	QCS31HJ-561Z	560PF 50V CER.CAPACI	UT
	C178	QCS31HJ-331Z	330PF 50V CER.CAPACI	BS
	C178	QCS31HJ-331Z	330PF 50V CER.CAPACI	EF
	C178	QCS31HJ-331Z	330PF 50V CER.CAPACI	EN
	C178	QCS31HJ-331Z	330PF 50V CER.CAPACI	G
	C178	QCS31HJ-331Z	330PF 50V CER.CAPACI	GI
	C178	QCS31HJ-331Z	330PF 50V CER.CAPACI	VX
	C178	QCS31HJ-561Z	560PF 50V CER.CAPACI	A
	C178	QCS31HJ-561Z	560PF 50V CER.CAPACI	U
	C178	QCS31HJ-561Z	560PF 50V CER.CAPACI	UB
	C178	QCS31HJ-561Z	560PF 50V CER.CAPACI	UP
	C178	QCS31HJ-561Z	560PF 50V CER.CAPACI	US
	C178	QCS31HJ-561Z	560PF 50V CER.CAPACI	UT
	C179	QETN1HM-225Z	2.2MF 50V AL E.CAPAC	
	C180	QETN1HM-225Z	2.2MF 50V AL E.CAPAC	
	C181	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C183	QETN1HM-105Z	1MF 50V AL E.CAPAC	
	C184	QETN1HM-105Z	1MF 50V AL E.CAPAC	
	C185	QETN1HM-225Z	2.2MF 50V AL E.CAPAC	
	C186	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	
	C187	QFLB1HJ-562	5600PF 50V MYLAR CAPA	
	C188	QFLB1HJ-562	5600PF 50V MYLAR CAPA	
	C189	QCSB1HK-5R6Y	5.6PF 50V CER.CAPACI	BS
	C189	QCSB1HK-5R6Y	5.6PF 50V CER.CAPACI	EF
	C189	QCSB1HK-5R6Y	5.6PF 50V CER.CAPACI	EN
	C189	QCSB1HK-5R6Y	5.6PF 50V CER.CAPACI	G
	C189	QCSB1HK-5R6Y	5.6PF 50V CER.CAPACI	GI
	C189	QCSB1HK-5R6Y	5.6PF 50V CER.CAPACI	VX
	C190	QCSB1HJ-150Y	15PF 50V CER.CAPACI	BS
	C190	QCSB1HJ-150Y	15PF 50V CER.CAPACI	EF
	C190	QCSB1HJ-150Y	15PF 50V CER.CAPACI	EN
	C190	QCSB1HJ-150Y	15PF 50V CER.CAPACI	G
	C190	QCSB1HJ-150Y	15PF 50V CER.CAPACI	GI
	C190	QCSB1HJ-150Y	15PF 50V CER.CAPACI	VX
	C192	QCC21EM-473	0.047MF 25V CER.CAPACI	
	C193	QCS21HJ-180A	18PF 50V CER.CAPACI	
	C194	QCS21HJ-180A	18PF 50V CER.CAPACI	
	C195	QCY31HK-102Z	1000PF 50V CER.CAPACI	
	C196	QFV71HJ-474ZM	0.47MF 50V THIN FILM	
	C200	QCY31HK-102Z	1000PF 50V CER.CAPACI	
	C201	QETN1CM-227ZS	220MF 16V E.CAPACITO	
	C209	QFLB1HJ-473	0.047MF 50V MYLAR CAPA	
	C210	QFLB1HJ-473	0.047MF 50V MYLAR CAPA	
	C228	QETC1HM-476	47MF 50V E.CAPACITO	
	C230	QCY31HK-102Z	1000PF 50V CER.CAPACI	
	C246	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C247	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C248	QEK51HM-105G	1MF 50V AL E.CAPAC	
	C249	QEK51CM-106G	10MF 16V AL E.CAPAC	
	C353	QEK51HM-105G	1MF 50V AL E.CAPAC	
	C354	QEK51HM-105G	1MF 50V AL E.CAPAC	
	C355	QEK51HM-105G	1MF 50V AL E.CAPAC	
	C356	QEK51HM-105G	1MF 50V AL E.CAPAC	
	C357	QEK51EM-106	10MF 25V AL E.CAPAC	
	C358	QEK51EM-106	10MF 25V AL E.CAPAC	
	C361	QFV81HJ-224	0.22MF 50V THIN FILM	
	C362	QFV81HJ-224	0.22MF 50V THIN FILM	
	C363	QEK51HM-475	4.7MF 50V AL E.CAPAC	
	C364	QETN1CM-476Z	47MF 16V AL E.CAPAC	
	C365	QCBB1HK-101Y	100PF 50V CER.CAPACI	BS
	C365	QCBB1HK-101Y	100PF 50V CER.CAPACI	EF
	C365	QCBB1HK-101Y	100PF 50V CER.CAPACI	EN
	C365	QCBB1HK-101Y	100PF 50V CER.CAPACI	G
	C365	QCBB1HK-101Y	100PF 50V CER.CAPACI	GI
	C366	QCBB1HK-101Y	100PF 50V CER.CAPACI	BS
	C366	QCBB1HK-101Y	100PF 50V CER.CAPACI	EF
	C366	QCBB1HK-101Y	100PF 50V CER.CAPACI	EN
	C366	QCBB1HK-101Y	100PF 50V CER.CAPACI	G
	C366	QCBB1HK-101Y	100PF 50V CER.CAPACI	GI
	C367	QCBB1HK-101Y	100PF 50V CER.CAPACI	BS
	C367	QCBB1HK-101Y	100PF 50V CER.CAPACI	EF
	C367	QCBB1HK-101Y	100PF 50V CER.CAPACI	EN
	C367	QCBB1HK-101Y	100PF 50V CER.CAPACI	G
	C367	QCBB1HK-101Y	100PF 50V CER.CAPACI	GI
	C368	QCBB1HK-101Y	100PF 50V CER.CAPACI	BS
	C368	QCBB1HK-101Y	100PF 50V CER.CAPACI	EF
	C368	QCBB1HK-101Y	100PF 50V CER.CAPACI	EN
	C368	QCBB1HK-101Y	100PF 50V CER.CAPACI	G
	C368	QCBB1HK-101Y	100PF 50V CER.CAPACI	GI
	C369	QEK51HM-475	4.7MF 50V AL E.CAPAC	
	C391	QEK51EM-106	10MF 25V AL E.CAPAC	
	C392	QEK51EM-106	10MF 25V AL E.CAPAC	
	C740	QETN1HM-105Z	1MF 50V AL E.CAPAC	
	C741	QETN1CM-476Z	47MF 16V AL E.CAPAC	
	C742	QETC1CM-226ZM	22MF 16V E.CAPACITO	
	C743	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	
	C744	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	
	C745	QCXB1CM-222Y	2200PF 16V CER.CAPACI	

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C746	QCXB1CM-222Y	2200PF 16V CER.CAPACI	
	C747	QCXB1CM-222Y	2200PF 16V CER.CAPACI	BS
	C747	QCXB1CM-222Y	2200PF 16V CER.CAPACI	EF
	C747	QCXB1CM-222Y	2200PF 16V CER.CAPACI	EN
	C747	QCXB1CM-222Y	2200PF 16V CER.CAPACI	G
	C747	QCXB1CM-222Y	2200PF 16V CER.CAPACI	GI
	C747	QCXB1CM-222Y	2200PF 16V CER.CAPACI	VX
	C748	QCXB1CM-222Y	2200PF 16V CER.CAPACI	BS
	C748	QCXB1CM-222Y	2200PF 16V CER.CAPACI	EF
	C748	QCXB1CM-222Y	2200PF 16V CER.CAPACI	EN
	C748	QCXB1CM-222Y	2200PF 16V CER.CAPACI	G
	C748	QCXB1CM-222Y	2200PF 16V CER.CAPACI	GI
	C748	QCXB1CM-222Y	2200PF 16V CER.CAPACI	VX
	C801	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C802	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C803	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C804	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C805	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C806	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C807	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C808	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C809	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	A
	C809	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	BS
	C809	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	EF
	C809	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	EN
	C809	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	G
	C809	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	GI
	C809	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	VX
	C810	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	A
	C810	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	BS
	C810	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	EF
	C810	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	EN
	C810	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	G
	C810	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	GI
	C810	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	VX
	C811	QETN1HM-105Z	1MF 50V AL E.CAPAC	
	C812	QETN1HM-105Z	1MF 50V AL E.CAPAC	
	C813	QFV71HJ-184ZM	0.18MF 50V CAPACITOR	
	C814	QFV71HJ-184ZM	0.18MF 50V CAPACITOR	
	C815	QFV81HJ-334	0.33MF 50V TF.CAPACIT	
	C816	QFV81HJ-334	0.33MF 50V TF.CAPACIT	
	C817	QFLB1HJ-122	1200PF 50V MYLAR CAPA	
	C818	QFLB1HJ-122	1200PF 50V MYLAR CAPA	
	C819	QETN1HM-105Z	1MF 50V AL E.CAPAC	
	C820	QETN1HM-105Z	1MF 50V AL E.CAPAC	
	C821	QETC1CM-226ZM	22MF 16V E.CAPACITO	
	C822	QETC1EM-107Z	100MF 25V AL E.CAPAC	
	C823	QETN1HM-106Z	10MF 50V AL E.CAPAC	U
	C823	QETN1HM-106Z	10MF 50V AL E.CAPAC	UB
	C823	QETN1HM-106Z	10MF 50V AL E.CAPAC	UP
	C823	QETN1HM-106Z	10MF 50V AL E.CAPAC	US
	C823	QETN1HM-106Z	10MF 50V AL E.CAPAC	UT
	C824	QFV71HJ-683ZM	0.068MF 50V THIN FILM	U
	C824	QFV71HJ-683ZM	0.068MF 50V THIN FILM	UB
	C824	QFV71HJ-683ZM	0.068MF 50V THIN FILM	UP
	C824	QFV71HJ-683ZM	0.068MF 50V THIN FILM	US
	C824	QFV71HJ-683ZM	0.068MF 50V THIN FILM	UT
	C825	QETN1HM-106Z	10MF 50V AL E.CAPAC	U
	C825	QETN1HM-106Z	10MF 50V AL E.CAPAC	UB
	C825	QETN1HM-106Z	10MF 50V AL E.CAPAC	UP
	C825	QETN1HM-106Z	10MF 50V AL E.CAPAC	US
	C825	QETN1HM-106Z	10MF 50V AL E.CAPAC	UT
	C826	QETN1HM-106Z	10MF 50V AL E.CAPAC	U
	C826	QETN1HM-106Z	10MF 50V AL E.CAPAC	UB
	C826	QETN1HM-106Z	10MF 50V AL E.CAPAC	UP
	C826	QETN1HM-106Z	10MF 50V AL E.CAPAC	US
	C826	QETN1HM-106Z	10MF 50V AL E.CAPAC	UT
	C827	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C828	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C831	QETN1CM-476Z	47MF 16V AL E.CAPAC	U
	C831	QETN1CM-476Z	47MF 16V AL E.CAPAC	UB
	C831	QETN1CM-476Z	47MF 16V AL E.CAPAC	UP
	C831	QETN1CM-476Z	47MF 16V AL E.CAPAC	US
	C831	QETN1CM-476Z	47MF 16V AL E.CAPAC	UT
	C832	QETC1CM-226ZM	22MF 16V E.CAPACITO	U
	C832	QETC1CM-226ZM	22MF 16V E.CAPACITO	UB
	C832	QETC1CM-226ZM	22MF 16V E.CAPACITO	UP
	C832	QETC1CM-226ZM	22MF 16V E.CAPACITO	US
	C832	QETC1CM-226ZM	22MF 16V E.CAPACITO	UT
	C833	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	U
	C833	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UB
	C833	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UP
	C833	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	US
	C833	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UT
	C834	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	U
	C834	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	UB
	C834	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	UP
	C834	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	US
	C834	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	UT
	C835	QCXB1CM-562Y	5600PF 16V CER.CAPACI	U
	C835	QCXB1CM-562Y	5600PF 16V CER.CAPACI	UB
	C835	QCXB1CM-562Y	5600PF 16V CER.CAPACI	UP
	C835	QCXB1CM-562Y	5600PF 16V CER.CAPACI	US
	C835	QCXB1CM-562Y	5600PF 16V CER.CAPACI	UT
	C836	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	U
	C836	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	UB
	C836	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	UP
	C836	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	US
	C836	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	UT
	C837	QCGB1HK-821	820PF 50V CER.CAPACI	U
	C837	QCGB1HK-821	820PF 50V CER.CAPACI	UB
	C837	QCGB1HK-821	820PF 50V CER.CAPACI	UP
	C837	QCGB1HK-821	820PF 50V CER.CAPACI	US
	C837	QCGB1HK-821	820PF 50V CER.CAPACI	UT
	C838	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	U
	C838	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UB
	C838	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UP
	C838	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	US
	C838	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UT
	C839	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	U
	C839	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UB
	C839	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UP
	C839	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	US
	C839	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UT
	C840	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	U

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C840	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UB
	C840	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UP
	C840	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	US
	C840	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UT
	C841	QCXB1CM-222Y	2200PF 16V CER.CAPACI	U
	C841	QCXB1CM-222Y	2200PF 16V CER.CAPACI	UB
	C841	QCXB1CM-222Y	2200PF 16V CER.CAPACI	UP
	C841	QCXB1CM-222Y	2200PF 16V CER.CAPACI	US
	C841	QCXB1CM-222Y	2200PF 16V CER.CAPACI	UT
	C842	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	U
	C842	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UB
	C842	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UP
	C842	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	US
	C842	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UT
	C843	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	U
	C843	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	UB
	C843	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	UP
	C843	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	US
	C843	QETN1HM-474Z	0.47MF 50V AL E.CAPAC	UT
	C844	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	U
	C844	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UB
	C844	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UP
	C844	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	US
	C844	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UT
	C845	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	U
	C845	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UB
	C845	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UP
	C845	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	US
	C845	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UT
	C846	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	U
	C846	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UB
	C846	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UP
	C846	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	US
	C846	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UT
	C847	QETN1HM-105Z	1MF 50V AL E.CAPAC	U
	C847	QETN1HM-105Z	1MF 50V AL E.CAPAC	UB
	C847	QETN1HM-105Z	1MF 50V AL E.CAPAC	UP
	C847	QETN1HM-105Z	1MF 50V AL E.CAPAC	US
	C847	QETN1HM-105Z	1MF 50V AL E.CAPAC	UT
	C849	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	A
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	BS
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	EF
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	EN
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	G
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	GI
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	U
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	UB
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	UP
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	US
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	UT
	C851	QETC1EM-476ZM	47MF 25V E.CAPACITO	VX
	C852	QETB1EM-476	47MF 25V AL E.CAPAC	
	C853	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C854	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C855	QCSB1HJ-100Y	10PF 50V CER.CAPACI	
	C856	QCSB1HJ-100Y	10PF 50V CER.CAPACI	
	C861	QETB1HM-106	10MF 50V E.CAPACITO	U
	C861	QETB1HM-106	10MF 50V E.CAPACITO	UB
	C861	QETN1HM-106Z	10MF 50V AL E.CAPAC	UP
	C861	QETN1HM-106Z	10MF 50V AL E.CAPAC	US
	C861	QETN1HM-106Z	10MF 50V AL E.CAPAC	UT
	C862	QETC1EM-473Z	0.047MF 25V ELECTRO	U
	C862	QETC1EM-473Z	0.047MF 25V ELECTRO	UB
	C862	QETC1EM-473Z	0.047MF 25V ELECTRO	UP
	C862	QETC1EM-473Z	0.047MF 25V ELECTRO	US
	C862	QETC1EM-473Z	0.047MF 25V ELECTRO	UT
	C862	QETN1HM-106Z	10MF 50V AL E.CAPAC	U
	C862	QETN1HM-106Z	10MF 50V AL E.CAPAC	UB
	C862	QETN1HM-106Z	10MF 50V AL E.CAPAC	UP
	C862	QETN1HM-106Z	10MF 50V AL E.CAPAC	US
	C862	QETN1HM-106Z	10MF 50V AL E.CAPAC	UT
	C864	QETC1EM-473Z	0.047MF 25V ELECTRO	
	C871	QETN1AM-107Z	100MF 10V AL E.CAPAC	
	C872	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C873	QETN1CM-476Z	47MF 16V AL E.CAPAC	
	C874	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C875	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C876	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C877	QFV71HJ-394ZM	0.39MF 50V THIN FILM	
	C878	QFV71HJ-394ZM	0.39MF 50V THIN FILM	
	C881	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C882	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C883	QCBB1HK-221Y	220PF 50V CER.CAPACI	BS
	C883	QCBB1HK-221Y	220PF 50V CER.CAPACI	EF
	C883	QCBB1HK-221Y	220PF 50V CER.CAPACI	EN
	C883	QCBB1HK-221Y	220PF 50V CER.CAPACI	G
	C883	QCBB1HK-221Y	220PF 50V CER.CAPACI	GI
	C883	QCBB1HK-221Y	220PF 50V CER.CAPACI	VX
	C884	QCBB1HK-221Y	220PF 50V CER.CAPACI	BS
	C884	QCBB1HK-221Y	220PF 50V CER.CAPACI	EF
	C884	QCBB1HK-221Y	220PF 50V CER.CAPACI	EN
	C884	QCBB1HK-221Y	220PF 50V CER.CAPACI	G
	C884	QCBB1HK-221Y	220PF 50V CER.CAPACI	GI
	C884	QCBB1HK-221Y	220PF 50V CER.CAPACI	VX
	C892	QCBB1HK-181Y	180PF 50V CER.CAPACI	U
	C892	QCBB1HK-181Y	180PF 50V CER.CAPACI	UB
	C892	QCBB1HK-181Y	180PF 50V CER.CAPACI	UP
	C892	QCBB1HK-181Y	180PF 50V CER.CAPACI	US
	C892	QCBB1HK-181Y	180PF 50V CER.CAPACI	UT
	C893	QCBB1HK-181Y	180PF 50V CER.CAPACI	U
	C893	QCBB1HK-181Y	180PF 50V CER.CAPACI	UB
	C893	QCBB1HK-181Y	180PF 50V CER.CAPACI	UP
	C893	QCBB1HK-181Y	180PF 50V CER.CAPACI	US
	C893	QCBB1HK-181Y	180PF 50V CER.CAPACI	UT
	C894	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	U
	C894	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UB
	C894	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UP
	C894	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	US
	C894	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	UT
	C895	QCBB1HK-221Y	220PF 50V CER.CAPACI	U
	C895	QCBB1HK-221Y	220PF 50V CER.CAPACI	UB
	C895	QCBB1HK-221Y	220PF 50V CER.CAPACI	UP
	C895	QCBB1HK-221Y	220PF 50V CER.CAPACI	US
	C895	QCBB1HK-221Y	220PF 50V CER.CAPACI	UT

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C896	QCZ0202-155	1.5MF 25V CER.RESIST	U
	C896	QCZ0202-155	1.5MF 25V CER.RESIST	UB
	C896	QCZ0202-155	1.5MF 25V CER.RESIST	UP
	C896	QCZ0202-155	1.5MF 25V CER.RESIST	US
	C896	QCZ0202-155	1.5MF 25V CER.RESIST	UT
	C897	QETN1CM-107Z	100MF 16V E.CAPACITO	U
	C897	QETN1CM-107Z	100MF 16V E.CAPACITO	UB
	C897	QETN1CM-107Z	100MF 16V E.CAPACITO	UP
	C897	QETN1CM-107Z	100MF 16V E.CAPACITO	US
	C897	QETN1CM-107Z	100MF 16V E.CAPACITO	UT
	C901	QETN1HM-105Z	1MF 50V AL E.CAPAC	
	C902	QCBB1HK-471Y	470PF 50V CER.CAPACI	
	C941	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	
	C942	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C943	QCHB1EZ-223	0.022MF 25V CER.CAPACI	

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
⚠	R008	PTH61G25AR4R7M	POSITIVE T	
	R009	QRD161J-222	2.2K 1/6W CARBON RES	
	R011	QRD161J-103	10K 1/6W CARBON RES	
	R012	QRD161J-102	1K 1/6W CARBON RES	
	R013	QRD161J-103	10K 1/6W CARBON RES	
	R014	QRD161J-103	10K 1/6W CARBON RES	
⚠	R020	QRD14CJ-2R2SX	2.2 1/4W UNF.CARBON	
⚠	R021	QRD14CJ-2R2SX	2.2 1/4W UNF.CARBON	
⚠	R022	QRD14CJ-2R2SX	2.2 1/4W UNF.CARBON	
	R024	QRD161J-222	2.2K 1/6W CARBON RES	
	R110	QRD161J-473	47K 1/6W CARBON RES	VX
	R111	QRD161J-472	4.7K 1/6W CARBON RES	BS
	R111	QRD161J-472	4.7K 1/6W CARBON RES	EF
	R111	QRD161J-472	4.7K 1/6W CARBON RES	EN
	R111	QRD161J-472	4.7K 1/6W CARBON RES	G
	R111	QRD161J-472	4.7K 1/6W CARBON RES	GI
	R111	QRD161J-472	4.7K 1/6W CARBON RES	VX
	R112	QRD161J-472	4.7K 1/6W CARBON RES	BS
	R112	QRD161J-472	4.7K 1/6W CARBON RES	EF
	R112	QRD161J-472	4.7K 1/6W CARBON RES	EN
	R112	QRD161J-472	4.7K 1/6W CARBON RES	G
	R112	QRD161J-472	4.7K 1/6W CARBON RES	GI
	R112	QRD161J-472	4.7K 1/6W CARBON RES	VX
	R113	QRD161J-472	4.7K 1/6W CARBON RES	BS
	R113	QRD161J-472	4.7K 1/6W CARBON RES	EF
	R113	QRD161J-472	4.7K 1/6W CARBON RES	EN
	R113	QRD161J-472	4.7K 1/6W CARBON RES	G
	R113	QRD161J-472	4.7K 1/6W CARBON RES	GI
	R113	QRD161J-472	4.7K 1/6W CARBON RES	VX
	R114	QRD161J-103	10K 1/6W CARBON RES	BS
	R114	QRD161J-103	10K 1/6W CARBON RES	EF
	R114	QRD161J-103	10K 1/6W CARBON RES	EN
	R114	QRD161J-103	10K 1/6W CARBON RES	G
	R114	QRD161J-103	10K 1/6W CARBON RES	GI
	R114	QRD161J-103	10K 1/6W CARBON RES	VX
	R115	QRD161J-222	2.2K 1/6W CARBON RES	
	R116	QRD161J-104	100K 1/6W CARBON RES	
	R117	QRD161J-222	2.2K 1/6W CARBON RES	BS
	R117	QRD161J-222	2.2K 1/6W CARBON RES	EF
	R117	QRD161J-222	2.2K 1/6W CARBON RES	EN
	R117	QRD161J-222	2.2K 1/6W CARBON RES	G
	R117	QRD161J-222	2.2K 1/6W CARBON RES	GI
	R117	QRD161J-222	2.2K 1/6W CARBON RES	VX
	R118	QRD167J-332	3.3K 1/6W CARBON RES	
	R119	QRD161J-221	220 1/6W CARBON RES	
	R121	QRD161J-391	390 1/6W CARBON RES	
	R122	QRD167J-272	2.7K 1/6W CARBON RES	
	R123	QRD161J-102	1K 1/6W CARBON RES	
	R124	QRD161J-681	680 1/6W CARBON RES	
	R125	QRD167J-332	3.3K 1/6W CARBON RES	
	R126	QRD161J-221	220 1/6W CARBON RES	
	R130	QRD167J-562	5.6K 1/6W CARBON RES	
	R135	QRD161J-470	47 1/6W CARBON RES	
	R146	QRD167J-560	56 1/6W CARBON RES	
	R147	QRD161J-103	10K 1/6W CARBON RES	
	R148	QRD161J-103	10K 1/6W CARBON RES	
	R149	QRD161J-273	27K 1/6W CARBON RES	
	R150	QRD161J-103	10K 1/6W CARBON RES	
	R153	QRD161J-103	10K 1/6W CARBON RES	
	R154	QRD161J-103	10K 1/6W CARBON RES	
	R155	QRD167J-562	5.6K 1/6W CARBON RES	
	R157	QRD161J-103	10K 1/6W CARBON RES	
	R158	QRD161J-333	33K 1/6W CARBON RES	A
	R158	QRD161J-333	33K 1/6W CARBON RES	BS
	R158	QRD161J-333	33K 1/6W CARBON RES	EF
	R158	QRD161J-333	33K 1/6W CARBON RES	EN
	R158	QRD161J-333	33K 1/6W CARBON RES	G
	R158	QRD161J-333	33K 1/6W CARBON RES	GI
	R158	QRD161J-333	33K 1/6W CARBON RES	U
	R158	QRD161J-333	33K 1/6W CARBON RES	UB
	R158	QRD161J-333	33K 1/6W CARBON RES	UP
	R158	QRD161J-333	33K 1/6W CARBON RES	US
	R158	QRD161J-333	33K 1/6W CARBON RES	UT
	R158	QRD161J-333	33K 1/6W CARBON RES	VX
	R159	QRD161J-561	560 1/6W CARBON RES	
	R160	QRD161J-202	2K 1/6W CARBON RES	A
	R160	QRD161J-202	2K 1/6W CARBON RES	BS
	R160	QRD161J-202	2K 1/6W CARBON RES	U
	R160	QRD161J-202	2K 1/6W CARBON RES	UB
	R160	QRD161J-202	2K 1/6W CARBON RES	UP
	R160	QRD161J-202	2K 1/6W CARBON RES	US
	R160	QRD161J-202	2K 1/6W CARBON RES	UT
	R160	QRD167J-153	15K 1/6W CARBON RES	EF
	R160	QRD167J-153	15K 1/6W CARBON RES	EN
	R160	QRD167J-153	15K 1/6W CARBON RES	G
	R160	QRD167J-153	15K 1/6W CARBON RES	GI
	R160	QRD167J-153	15K 1/6W CARBON RES	VX
	R161	QRD161J-124	120K 1/6W CARBON RES	U
	R161	QRD161J-124	120K 1/6W CARBON RES	UB
	R161	QRD161J-124	120K 1/6W CARBON RES	UP

⚠ : SAFETY PARTS

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R161	QRD161J-124	120K 1/6W CARBON RES	US
	R161	QRD161J-124	120K 1/6W CARBON RES	UT
	R161	QRD161J-184	180K 1/6W CARBON RES	A
	R161	QRD161J-224	220K 1/6W CARBON RES	BS
	R161	QRD161J-224	220K 1/6W CARBON RES	EF
	R161	QRD161J-224	220K 1/6W CARBON RES	EN
	R161	QRD161J-224	220K 1/6W CARBON RES	G
	R161	QRD161J-224	220K 1/6W CARBON RES	GI
	R161	QRD161J-224	220K 1/6W CARBON RES	VX
	R162	QRD161J-124	120K 1/6W CARBON RES	U
	R162	QRD161J-124	120K 1/6W CARBON RES	UB
	R162	QRD161J-124	120K 1/6W CARBON RES	UP
	R162	QRD161J-124	120K 1/6W CARBON RES	US
	R162	QRD161J-124	120K 1/6W CARBON RES	UT
	R162	QRD161J-184	180K 1/6W CARBON RES	A
	R162	QRD161J-224	220K 1/6W CARBON RES	BS
	R162	QRD161J-224	220K 1/6W CARBON RES	EF
	R162	QRD161J-224	220K 1/6W CARBON RES	EN
	R162	QRD161J-224	220K 1/6W CARBON RES	G
	R162	QRD161J-224	220K 1/6W CARBON RES	GI
	R162	QRD161J-224	220K 1/6W CARBON RES	VX
	R163	QRD161J-122	1.2K 1/6W CARBON RES	U
	R163	QRD161J-122	1.2K 1/6W CARBON RES	UB
	R163	QRD161J-122	1.2K 1/6W CARBON RES	UP
	R163	QRD161J-122	1.2K 1/6W CARBON RES	US
	R163	QRD161J-122	1.2K 1/6W CARBON RES	UT
	R163	QRD167J-152	1.5K 1/6W CARBON RES	BS
	R163	QRD167J-152	1.5K 1/6W CARBON RES	EF
	R163	QRD167J-152	1.5K 1/6W CARBON RES	EN
	R163	QRD167J-152	1.5K 1/6W CARBON RES	G
	R163	QRD167J-152	1.5K 1/6W CARBON RES	GI
	R163	QRD167J-152	1.5K 1/6W CARBON RES	VX
	R164	QRD161J-122	1.2K 1/6W CARBON RES	U
	R164	QRD161J-122	1.2K 1/6W CARBON RES	UB
	R164	QRD161J-122	1.2K 1/6W CARBON RES	UP
	R164	QRD161J-122	1.2K 1/6W CARBON RES	US
	R164	QRD161J-122	1.2K 1/6W CARBON RES	UT
	R164	QRD167J-152	1.5K 1/6W CARBON RES	BS
	R164	QRD167J-152	1.5K 1/6W CARBON RES	EF
	R164	QRD167J-152	1.5K 1/6W CARBON RES	EN
	R164	QRD167J-152	1.5K 1/6W CARBON RES	G
	R164	QRD167J-152	1.5K 1/6W CARBON RES	GI
	R164	QRD167J-152	1.5K 1/6W CARBON RES	VX
	R165	QRD161J-184	180K 1/6W CARBON RES	U
	R165	QRD161J-184	180K 1/6W CARBON RES	UB
	R165	QRD161J-184	180K 1/6W CARBON RES	UP
	R165	QRD161J-184	180K 1/6W CARBON RES	US
	R165	QRD161J-184	180K 1/6W CARBON RES	UT
	R165	QRD161J-274	270K 1/6W CARBON RES	A
	R165	QRD161J-274	270K 1/6W CARBON RES	BS
	R165	QRD161J-274	270K 1/6W CARBON RES	EF
	R165	QRD161J-274	270K 1/6W CARBON RES	EN
	R165	QRD161J-274	270K 1/6W CARBON RES	G
	R165	QRD161J-274	270K 1/6W CARBON RES	GI
	R165	QRD161J-274	270K 1/6W CARBON RES	VX
	R166	QRD161J-184	180K 1/6W CARBON RES	U
	R166	QRD161J-184	180K 1/6W CARBON RES	UB
	R166	QRD161J-184	180K 1/6W CARBON RES	UP
	R166	QRD161J-184	180K 1/6W CARBON RES	US
	R166	QRD161J-184	180K 1/6W CARBON RES	UT
	R166	QRD161J-274	270K 1/6W CARBON RES	A
	R166	QRD161J-274	270K 1/6W CARBON RES	BS
	R166	QRD161J-274	270K 1/6W CARBON RES	EF
	R166	QRD161J-274	270K 1/6W CARBON RES	EN
	R166	QRD161J-274	270K 1/6W CARBON RES	G
	R166	QRD161J-274	270K 1/6W CARBON RES	GI
	R166	QRD161J-274	270K 1/6W CARBON RES	VX
	R167	QRD161J-473	47K 1/6W CARBON RES	A
	R167	QRD161J-473	47K 1/6W CARBON RES	BS
	R167	QRD161J-473	47K 1/6W CARBON RES	EF
	R167	QRD161J-473	47K 1/6W CARBON RES	EN
	R167	QRD161J-473	47K 1/6W CARBON RES	G
	R167	QRD161J-473	47K 1/6W CARBON RES	GI
	R167	QRD161J-473	47K 1/6W CARBON RES	U
	R167	QRD161J-473	47K 1/6W CARBON RES	UB
	R167	QRD161J-473	47K 1/6W CARBON RES	UP
	R167	QRD161J-473	47K 1/6W CARBON RES	US
	R167	QRD161J-473	47K 1/6W CARBON RES	UT
	R167	QRD161J-473	47K 1/6W CARBON RES	VX
	R168	QRD161J-103	10K 1/6W CARBON RES	
	R169	QRD161J-103	10K 1/6W CARBON RES	
	R170	QRD167J-822	8.2K 1/6W CARBON RES	
	R179	QRD167J-562	5.6K 1/6W CARBON RES	
	R180	QRD161J-472	4.7K 1/6W CARBON RES	
	R181	QRD161J-103	10K 1/6W CARBON RES	
	R182	QRD161J-103	10K 1/6W CARBON RES	
	R183	QRD161J-103	10K 1/6W CARBON RES	
	R188	QRD161J-472	4.7K 1/6W CARBON RES	
	R190	QRD161J-472	4.7K 1/6W CARBON RES	
	R194	QRD161J-473	47K 1/6W CARBON RES	
	R195	QRD161J-473	47K 1/6W CARBON RES	
	R196	QRD161J-222	2.2K 1/6W CARBON RES	
	R197	QRD161J-472	4.7K 1/6W CARBON RES	
	R198	QRD167J-822	8.2K 1/6W CARBON RES	
	R200	QRD161J-103	10K 1/6W CARBON RES	
	R201	QRD161J-103	10K 1/6W CARBON RES	
⚠	R202	QRD14CJ-470SX	47 1/4W UNF.CARBON	
	R209	QRD161J-183	18K 1/6W CARBON RES	
	R210	QRD161J-183	18K 1/6W CARBON RES	
	R211	QRD161J-621	620 1/6W CARBON RES	
	R212	QRD161J-621	620 1/6W CARBON RES	
	R213	QRD167J-153	15K 1/6W CARBON RES	
	R214	QRD167J-153	15K 1/6W CARBON RES	
	R215	QRD161J-105	1M 1/6W CARBON RES	
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	A
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	BS
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	EF
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	EN
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	G
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	GI
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	U
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	UB
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	UP
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	US
	R231	QRZ0077-220X	22 1/4W FUSIBLE RE	UT

⚠ : SAFETY PARTS

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	R231	QRZ0077-220X	22	1/4W	FUSIBLE RE	VX
	R241	QRD161J-754	750K	1/6W	CARBON RES	
	R242	QRD161J-754	750K	1/6W	CARBON RES	
	R243	QRD161J-183	18K	1/6W	CARBON RES	
	R244	QRD161J-105	1M	1/6W	CARBON RES	
	R245	QRD161J-103	10K	1/6W	CARBON RES	
	R246	QRD161J-105	1M	1/6W	CARBON RES	
	R247	QRD161J-913	91K	1/6W	CARBON RES	
	R248	QRD161J-104	100K	1/6W	CARBON RES	
	R249	QRD161J-103	10K	1/6W	CARBON RES	
	R250	QRD161J-102	1K	1/6W	CARBON RES	
	R373	QRD161J-103	10K	1/6W	CARBON RES	
	R389	QRD161J-203	20K	1/6W	CARBON RES	
	R390	QRD161J-203	20K	1/6W	CARBON RES	
	R393	QRD167J-153	15K	1/6W	CARBON RES	
	R394	QRD167J-153	15K	1/6W	CARBON RES	
	R395	QRD161J-103	10K	1/6W	CARBON RES	
	R396	QRD161J-103	10K	1/6W	CARBON RES	
	R730	QRD161J-104	100K	1/6W	CARBON RES	
	R742	QRD161J-104	100K	1/6W	CARBON RES	
	R743	QRD161J-104	100K	1/6W	CARBON RES	
	R744	QRD161J-103	10K	1/6W	CARBON RES	
	R745	QRD167J-153	15K	1/6W	CARBON RES	
	R746	QRD161J-104	100K	1/6W	CARBON RES	
	R747	QRD161J-122	1.2K	1/6W	CARBON RES	
	R748	QRD161J-222	2.2K	1/6W	CARBON RES	
	R749	QRD14CJ-821SX	820	1/4W	CARBON RES	
	R750	QRD14CJ-821SX	820	1/4W	CARBON RES	
	R751	QRD14CJ-821SX	820	1/4W	CARBON RES	
	R752	QRD14CJ-821SX	820	1/4W	CARBON RES	
	R753	QRD161J-103	10K	1/6W	CARBON RES	
	R754	QRD161J-103	10K	1/6W	CARBON RES	
	R755	QRD14CJ-4R7SX	4.7	1/4W	UNF.CARBON	
	R756	QRD14CJ-4R7SX	4.7	1/4W	UNF.CARBON	
	R757	QRG012J-471A	470	1W	OXIDE META	
	R801	QRD167J-152	1.5K	1/6W	CARBON RES	
	R802	QRD167J-152	1.5K	1/6W	CARBON RES	
	R803	QRD167J-152	1.5K	1/6W	CARBON RES	
	R804	QRD167J-152	1.5K	1/6W	CARBON RES	
	R805	QRD161J-221	220	1/6W	CARBON RES	
	R806	QRD161J-221	220	1/6W	CARBON RES	
⚠	R807	QRD14CJ-680SX	68	1/4W	UNF.CARBON	
	R808	QRD161J-221	220	1/6W	CARBON RES	
	R809	QRD167J-562	5.6K	1/6W	CARBON RES	U
	R809	QRD167J-562	5.6K	1/6W	CARBON RES	UB
	R809	QRD167J-562	5.6K	1/6W	CARBON RES	UP
	R809	QRD167J-562	5.6K	1/6W	CARBON RES	US
	R809	QRD167J-562	5.6K	1/6W	CARBON RES	UT
	R810	QRD167J-562	5.6K	1/6W	CARBON RES	U
	R810	QRD167J-562	5.6K	1/6W	CARBON RES	UB
	R810	QRD167J-562	5.6K	1/6W	CARBON RES	UP
	R810	QRD167J-562	5.6K	1/6W	CARBON RES	US
	R810	QRD167J-562	5.6K	1/6W	CARBON RES	UT
	R811	QRD161J-103	10K	1/6W	CARBON RES	U
	R811	QRD161J-103	10K	1/6W	CARBON RES	UB
	R811	QRD161J-103	10K	1/6W	CARBON RES	UP
	R811	QRD161J-103	10K	1/6W	CARBON RES	US
	R811	QRD161J-103	10K	1/6W	CARBON RES	UT
	R812	QRD161J-103	10K	1/6W	CARBON RES	U
	R812	QRD161J-103	10K	1/6W	CARBON RES	UB
	R812	QRD161J-103	10K	1/6W	CARBON RES	UP
	R812	QRD161J-103	10K	1/6W	CARBON RES	US
	R812	QRD161J-103	10K	1/6W	CARBON RES	UT
	R813	QRD161J-103	10K	1/6W	CARBON RES	U
	R813	QRD161J-103	10K	1/6W	CARBON RES	UB
	R813	QRD161J-103	10K	1/6W	CARBON RES	UP
	R813	QRD161J-103	10K	1/6W	CARBON RES	US
	R813	QRD161J-103	10K	1/6W	CARBON RES	UT
	R814	QRD161J-103	10K	1/6W	CARBON RES	U
	R814	QRD161J-103	10K	1/6W	CARBON RES	UB
	R814	QRD161J-103	10K	1/6W	CARBON RES	UP
	R814	QRD161J-103	10K	1/6W	CARBON RES	US
	R814	QRD161J-103	10K	1/6W	CARBON RES	UT
	R815	QRD161J-163	16K	1/6W	CARBON RES	U
	R815	QRD161J-163	16K	1/6W	CARBON RES	UB
	R815	QRD161J-163	16K	1/6W	CARBON RES	UP
	R815	QRD161J-163	16K	1/6W	CARBON RES	US
	R815	QRD161J-163	16K	1/6W	CARBON RES	UT
	R816	QRD161J-163	16K	1/6W	CARBON RES	U
	R816	QRD161J-163	16K	1/6W	CARBON RES	UB
	R816	QRD161J-163	16K	1/6W	CARBON RES	UP
	R816	QRD161J-163	16K	1/6W	CARBON RES	US
	R816	QRD161J-163	16K	1/6W	CARBON RES	UT
	R817	QRD161J-103	10K	1/6W	CARBON RES	U
	R817	QRD161J-103	10K	1/6W	CARBON RES	UB
	R817	QRD161J-103	10K	1/6W	CARBON RES	UP
	R817	QRD161J-103	10K	1/6W	CARBON RES	US
	R817	QRD161J-103	10K	1/6W	CARBON RES	UT
	R818	QRD161J-103	10K	1/6W	CARBON RES	U
	R818	QRD161J-103	10K	1/6W	CARBON RES	UB
	R818	QRD161J-103	10K	1/6W	CARBON RES	UP
	R818	QRD161J-103	10K	1/6W	CARBON RES	US
	R818	QRD161J-103	10K	1/6W	CARBON RES	UT
	R819	QRD161J-473	47K	1/6W	CARBON RES	U
	R819	QRD161J-473	47K	1/6W	CARBON RES	UB
	R819	QRD161J-473	47K	1/6W	CARBON RES	UP
	R819	QRD161J-473	47K	1/6W	CARBON RES	US
	R819	QRD161J-473	47K	1/6W	CARBON RES	UT
	R820	QRD161J-473	47K	1/6W	CARBON RES	U
	R820	QRD161J-473	47K	1/6W	CARBON RES	UB
	R820	QRD161J-473	47K	1/6W	CARBON RES	UP
	R820	QRD161J-473	47K	1/6W	CARBON RES	US
	R820	QRD161J-473	47K	1/6W	CARBON RES	UT
	R821	QRD161J-104	100K	1/6W	CARBON RES	U
	R821	QRD161J-104	100K	1/6W	CARBON RES	UB
	R821	QRD161J-104	100K	1/6W	CARBON RES	UP
	R821	QRD161J-104	100K	1/6W	CARBON RES	US
	R821	QRD161J-104	100K	1/6W	CARBON RES	UT
	R822	QRD161J-473	47K	1/6W	CARBON RES	U
	R822	QRD161J-473	47K	1/6W	CARBON RES	UB
	R822	QRD161J-473	47K	1/6W	CARBON RES	UP
	R822	QRD161J-473	47K	1/6W	CARBON RES	US
	R822	QRD161J-473	47K	1/6W	CARBON RES	UT
	R823	QRD161J-473	47K	1/6W	CARBON RES	U
	R823	QRD161J-473	47K	1/6W	CARBON RES	UB

⚠ : SAFETY PARTS

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION			AREA
	R823	QRD161J-473	47K	1/6W	CARBON RES	UP
	R823	QRD161J-473	47K	1/6W	CARBON RES	US
	R823	QRD161J-473	47K	1/6W	CARBON RES	UT
	R824	QRD161J-473	47K	1/6W	CARBON RES	U
	R824	QRD161J-473	47K	1/6W	CARBON RES	UB
	R824	QRD161J-473	47K	1/6W	CARBON RES	UP
	R824	QRD161J-473	47K	1/6W	CARBON RES	US
	R824	QRD161J-473	47K	1/6W	CARBON RES	UT
	R825	QRD161J-104	100K	1/6W	CARBON RES	U
	R825	QRD161J-104	100K	1/6W	CARBON RES	UB
	R825	QRD161J-104	100K	1/6W	CARBON RES	UP
	R825	QRD161J-104	100K	1/6W	CARBON RES	US
	R825	QRD161J-104	100K	1/6W	CARBON RES	UT
	R826	QRD161J-473	47K	1/6W	CARBON RES	U
	R826	QRD161J-473	47K	1/6W	CARBON RES	UB
	R826	QRD161J-473	47K	1/6W	CARBON RES	UP
	R826	QRD161J-473	47K	1/6W	CARBON RES	US
	R826	QRD161J-473	47K	1/6W	CARBON RES	UT
	R827	QRD161J-473	47K	1/6W	CARBON RES	U
	R827	QRD161J-473	47K	1/6W	CARBON RES	UB
	R827	QRD161J-473	47K	1/6W	CARBON RES	UP
	R827	QRD161J-473	47K	1/6W	CARBON RES	US
	R827	QRD161J-473	47K	1/6W	CARBON RES	UT
	R828	QRD161J-104	100K	1/6W	CARBON RES	U
	R828	QRD161J-104	100K	1/6W	CARBON RES	UB
	R828	QRD161J-104	100K	1/6W	CARBON RES	UP
	R828	QRD161J-104	100K	1/6W	CARBON RES	US
	R828	QRD161J-104	100K	1/6W	CARBON RES	UT
	R829	QRD167J-562	5.6K	1/6W	CARBON RES	U
	R829	QRD167J-562	5.6K	1/6W	CARBON RES	UB
	R829	QRD167J-562	5.6K	1/6W	CARBON RES	UP
	R829	QRD167J-562	5.6K	1/6W	CARBON RES	US
	R829	QRD167J-562	5.6K	1/6W	CARBON RES	UT
	R830	QRD167J-682	6.8K	1/6W	CARBON RES	U
	R830	QRD167J-682	6.8K	1/6W	CARBON RES	UB
	R830	QRD167J-682	6.8K	1/6W	CARBON RES	UP
	R830	QRD167J-682	6.8K	1/6W	CARBON RES	US
	R830	QRD167J-682	6.8K	1/6W	CARBON RES	UT
	R831	QRD167J-332	3.3K	1/6W	CARBON RES	U
	R831	QRD167J-332	3.3K	1/6W	CARBON RES	UB
	R831	QRD167J-332	3.3K	1/6W	CARBON RES	UP
	R831	QRD167J-332	3.3K	1/6W	CARBON RES	US
	R831	QRD167J-332	3.3K	1/6W	CARBON RES	UT
	R833	QRD167J-152	1.5K	1/6W	CARBON RES	
	R835	QRD167J-152	1.5K	1/6W	CARBON RES	U
	R835	QRD167J-152	1.5K	1/6W	CARBON RES	UB
	R835	QRD167J-152	1.5K	1/6W	CARBON RES	UP
	R835	QRD167J-152	1.5K	1/6W	CARBON RES	US
	R835	QRD167J-152	1.5K	1/6W	CARBON RES	UT
	R836	QRD161J-123	12K	1/6W	CARBON RES	U
	R836	QRD161J-123	12K	1/6W	CARBON RES	UB
	R836	QRD161J-123	12K	1/6W	CARBON RES	UP
	R836	QRD161J-123	12K	1/6W	CARBON RES	US
	R836	QRD161J-123	12K	1/6W	CARBON RES	UT
	R837	QRD161J-103	10K	1/6W	CARBON RES	U
	R837	QRD161J-103	10K	1/6W	CARBON RES	UB
	R837	QRD161J-103	10K	1/6W	CARBON RES	UP
	R837	QRD161J-103	10K	1/6W	CARBON RES	US
	R837	QRD161J-103	10K	1/6W	CARBON RES	UT
	R838	QRD161J-103	10K	1/6W	CARBON RES	U
	R838	QRD161J-103	10K	1/6W	CARBON RES	UB
	R838	QRD161J-103	10K	1/6W	CARBON RES	UP
	R838	QRD161J-103	10K	1/6W	CARBON RES	US
	R838	QRD161J-103	10K	1/6W	CARBON RES	UT
	R839	QRD161J-103	10K	1/6W	CARBON RES	U
	R839	QRD161J-103	10K	1/6W	CARBON RES	UB
	R839	QRD161J-103	10K	1/6W	CARBON RES	UP
	R839	QRD161J-103	10K	1/6W	CARBON RES	US
	R839	QRD161J-103	10K	1/6W	CARBON RES	UT
	R840	QRD161J-303Y	30K	1/6W	CARBON RES	U
	R840	QRD161J-303Y	30K	1/6W	CARBON RES	UB
	R840	QRD161J-303Y	30K	1/6W	CARBON RES	UP
	R840	QRD161J-303Y	30K	1/6W	CARBON RES	US
	R840	QRD161J-303Y	30K	1/6W	CARBON RES	UT
	R841	QRD161J-103	10K	1/6W	CARBON RES	U
	R841	QRD161J-103	10K	1/6W	CARBON RES	UB
	R841	QRD161J-103	10K	1/6W	CARBON RES	UP
	R841	QRD161J-103	10K	1/6W	CARBON RES	US
	R841	QRD161J-103	10K	1/6W	CARBON RES	UT
	R842	QRD161J-103	10K	1/6W	CARBON RES	U
	R842	QRD161J-103	10K	1/6W	CARBON RES	UB
	R842	QRD161J-103	10K	1/6W	CARBON RES	UP
	R842	QRD161J-103	10K	1/6W	CARBON RES	US
	R842	QRD161J-103	10K	1/6W	CARBON RES	UT
	R843	QRD161J-103	10K	1/6W	CARBON RES	U
	R843	QRD161J-103	10K	1/6W	CARBON RES	UB
	R843	QRD161J-103	10K	1/6W	CARBON RES	UP
	R843	QRD161J-103	10K	1/6W	CARBON RES	US
	R843	QRD161J-103	10K	1/6W	CARBON RES	UT
	R844	QRD161J-243	24K	1/6W	CARBON RES	U
	R844	QRD161J-243	24K	1/6W	CARBON RES	UB
	R844	QRD161J-243	24K	1/6W	CARBON RES	UP
	R844	QRD161J-243	24K	1/6W	CARBON RES	US
	R844	QRD161J-243	24K	1/6W	CARBON RES	UT
	R845	QRD161J-471	470	1/6W	CARBON RES	U
	R845	QRD161J-471	470	1/6W	CARBON RES	UB
	R845	QRD161J-471	470	1/6W	CARBON RES	UP
	R845	QRD161J-471	470	1/6W	CARBON RES	US
	R845	QRD161J-471	470	1/6W	CARBON RES	UT
	R847	QRD161J-563	56K	1/6W	CARBON RES	
	R848	QRD161J-563	56K	1/6W	CARBON RES	
	R851	QRD161J-103	10K	1/6W	CARBON RES	
	R852	QRD161J-103	10K	1/6W	CARBON RES	
	R853	QRD161J-104	100K	1/6W	CARBON RES	U
	R853	QRD161J-104	100K	1/6W	CARBON RES	UB
	R853	QRD161J-104	100K	1/6W	CARBON RES	UP
	R853	QRD161J-104	100K	1/6W	CARBON RES	US
	R853	QRD161J-104	100K	1/6W	CARBON RES	UT
	R853	QRD161J-222	2.2K	1/6W	CARBON RES	A
	R853	QRD161J-222	2.2K	1/6W	CARBON RES	BS
	R853	QRD161J-222	2.2K	1/6W	CARBON RES	EF
	R853	QRD161J-222	2.2K	1/6W	CARBON RES	EN
	R853	QRD161J-222	2.2K	1/6W	CARBON RES	G
	R853	QRD161J-222	2.2K	1/6W	CARBON RES	GI
	R853	QRD161J-222	2.2K	1/6W	CARBON RES	VX

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R854	QRD16JJ-222	2.2K 1/6W R.NETWORK	VX
	R854	QRD161J-104	100K 1/6W CARBON RES	U
	R854	QRD161J-104	100K 1/6W CARBON RES	UB
	R854	QRD161J-104	100K 1/6W CARBON RES	UP
	R854	QRD161J-104	100K 1/6W CARBON RES	US
	R854	QRD161J-104	100K 1/6W CARBON RES	UT
	R854	QRD161J-222	2.2K 1/6W CARBON RES	A
	R854	QRD161J-222	2.2K 1/6W CARBON RES	BS
	R854	QRD161J-222	2.2K 1/6W CARBON RES	EF
	R854	QRD161J-222	2.2K 1/6W CARBON RES	EN
	R854	QRD161J-222	2.2K 1/6W CARBON RES	G
	R854	QRD161J-222	2.2K 1/6W CARBON RES	GI
	R855	QRD161J-182	1.8K 1/6W CARBON RES	U
	R855	QRD161J-182	1.8K 1/6W CARBON RES	UB
	R855	QRD161J-182	1.8K 1/6W CARBON RES	UP
	R855	QRD161J-182	1.8K 1/6W CARBON RES	US
	R855	QRD161J-182	1.8K 1/6W CARBON RES	UT
	R855	QRD161J-472	4.7K 1/6W CARBON RES	A
	R855	QRD161J-472	4.7K 1/6W CARBON RES	BS
	R855	QRD161J-472	4.7K 1/6W CARBON RES	EF
	R855	QRD161J-472	4.7K 1/6W CARBON RES	EN
	R855	QRD161J-472	4.7K 1/6W CARBON RES	G
	R855	QRD161J-472	4.7K 1/6W CARBON RES	GI
	R855	QRD161J-472	4.7K 1/6W CARBON RES	VX
	R856	QRD161J-182	1.8K 1/6W CARBON RES	U
	R856	QRD161J-182	1.8K 1/6W CARBON RES	UB
	R856	QRD161J-182	1.8K 1/6W CARBON RES	UP
	R856	QRD161J-182	1.8K 1/6W CARBON RES	US
	R856	QRD161J-182	1.8K 1/6W CARBON RES	UT
	R856	QRD161J-472	4.7K 1/6W CARBON RES	A
	R856	QRD161J-472	4.7K 1/6W CARBON RES	BS
	R856	QRD161J-472	4.7K 1/6W CARBON RES	EF
	R856	QRD161J-472	4.7K 1/6W CARBON RES	EN
	R856	QRD161J-472	4.7K 1/6W CARBON RES	G
	R856	QRD161J-472	4.7K 1/6W CARBON RES	GI
	R856	QRD161J-472	4.7K 1/6W CARBON RES	VX
	R857	QRD161J-472	4.7K 1/6W CARBON RES	A
	R857	QRD161J-472	4.7K 1/6W CARBON RES	BS
	R857	QRD161J-472	4.7K 1/6W CARBON RES	EF
	R857	QRD161J-472	4.7K 1/6W CARBON RES	EN
	R857	QRD161J-472	4.7K 1/6W CARBON RES	G
	R857	QRD161J-472	4.7K 1/6W CARBON RES	GI
	R857	QRD161J-472	4.7K 1/6W CARBON RES	VX
	R857	QRD167J-113	11K 1/6W CARBON RES	U
	R857	QRD167J-113	11K 1/6W CARBON RES	UB
	R857	QRD167J-113	11K 1/6W CARBON RES	UP
	R857	QRD167J-113	11K 1/6W CARBON RES	US
	R857	QRD167J-113	11K 1/6W CARBON RES	UT
	R858	QRD167J-113	11K 1/6W CARBON RES	A
	R858	QRD167J-113	11K 1/6W CARBON RES	BS
	R858	QRD167J-113	11K 1/6W CARBON RES	EF
	R858	QRD167J-113	11K 1/6W CARBON RES	EN
	R858	QRD167J-113	11K 1/6W CARBON RES	G
	R858	QRD167J-113	11K 1/6W CARBON RES	GI
	R858	QRD167J-113	11K 1/6W CARBON RES	U
	R858	QRD167J-113	11K 1/6W CARBON RES	UB
	R858	QRD167J-113	11K 1/6W CARBON RES	UP
	R858	QRD167J-113	11K 1/6W CARBON RES	US
	R858	QRD167J-113	11K 1/6W CARBON RES	UT
	R858	QRD167J-113	11K 1/6W CARBON RES	VX
	R861	QRD167J-223	22K 1/6W CARBON RES	
	R862	QRD167J-223	22K 1/6W CARBON RES	
	R867	QRD161J-103	10K 1/6W CARBON RES	
	R868	QRD161J-103	10K 1/6W CARBON RES	
	R869	QRD161J-222	2.2K 1/6W CARBON RES	
	R871	QRD161J-103	10K 1/6W CARBON RES	
	R872	QRD161J-122	1.2K 1/6W CARBON RES	
	R873	QRD167J-121	120 1/6W CARBON RES	
	R875	QRD167J-152	1.5K 1/6W CARBON RES	
	R876	QRD167J-152	1.5K 1/6W CARBON RES	
	R877	QRD161J-392	3.9K 1/6W CARBON RES	
	R878	QRD161J-392	3.9K 1/6W CARBON RES	
	R879	QRD161J-222	2.2K 1/6W CARBON RES	EF
	R879	QRD161J-222	2.2K 1/6W CARBON RES	EN
	R879	QRD161J-222	2.2K 1/6W CARBON RES	G
	R879	QRD161J-222	2.2K 1/6W CARBON RES	GI
	R879	QRD161J-222	2.2K 1/6W CARBON RES	VX
	R879	QRD167J-332	3.3K 1/6W CARBON RES	BS
	R880	QRD161J-222	2.2K 1/6W CARBON RES	EF
	R880	QRD161J-222	2.2K 1/6W CARBON RES	EN
	R880	QRD161J-222	2.2K 1/6W CARBON RES	G
	R880	QRD161J-222	2.2K 1/6W CARBON RES	GI
	R880	QRD161J-222	2.2K 1/6W CARBON RES	VX
	R880	QRD167J-332	3.3K 1/6W CARBON RES	BS
	R881	QRD161J-202	2K 1/6W CARBON RES	BS
	R881	QRD161J-222	2.2K 1/6W CARBON RES	A
	R881	QRD161J-222	2.2K 1/6W CARBON RES	U
	R881	QRD161J-222	2.2K 1/6W CARBON RES	UB
	R881	QRD161J-222	2.2K 1/6W CARBON RES	UP
	R881	QRD161J-222	2.2K 1/6W CARBON RES	US
	R881	QRD161J-222	2.2K 1/6W CARBON RES	UT
	R881	QRD161J-272	2.7K 1/6W CARBON RES	EF
	R881	QRD161J-272	2.7K 1/6W CARBON RES	EN
	R881	QRD161J-272	2.7K 1/6W CARBON RES	G
	R881	QRD161J-272	2.7K 1/6W CARBON RES	GI
	R881	QRD161J-272	2.7K 1/6W CARBON RES	VX
	R882	QRD161J-202	2K 1/6W CARBON RES	BS
	R882	QRD161J-222	2.2K 1/6W CARBON RES	U
	R882	QRD161J-222	2.2K 1/6W CARBON RES	UB
	R882	QRD161J-222	2.2K 1/6W CARBON RES	UP
	R882	QRD161J-222	2.2K 1/6W CARBON RES	US
	R882	QRD161J-222	2.2K 1/6W CARBON RES	UT
	R882	QRD161J-272	2.7K 1/6W CARBON RES	EF
	R882	QRD161J-272	2.7K 1/6W CARBON RES	EN
	R882	QRD161J-272	2.7K 1/6W CARBON RES	G
	R882	QRD161J-272	2.7K 1/6W CARBON RES	GI
	R882	QRD161J-272	2.7K 1/6W CARBON RES	VX
	R883	QRD161J-163	16K 1/6W CARBON RES	
	R884	QRD161J-163	16K 1/6W CARBON RES	
	R885	QRD161J-104	100K 1/6W CARBON RES	
	R886	QRD161J-104	100K 1/6W CARBON RES	
	R887	QRD167J-221	220 1/6W CARBON RES	BS
	R887	QRD167J-221	220 1/6W CARBON RES	EF
	R887	QRD167J-221	220 1/6W CARBON RES	EN
	R887	QRD167J-221	220 1/6W CARBON RES	G

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R887	QRD167J-221	220 1/6W CARBON RES	GI
	R887	QRD167J-221	220 1/6W CARBON RES	VX
	R892	QRD167J-682	6.8K 1/6W CARBON RES	U
	R892	QRD167J-682	6.8K 1/6W CARBON RES	UB
	R892	QRD167J-682	6.8K 1/6W CARBON RES	UP
	R892	QRD167J-682	6.8K 1/6W CARBON RES	US
	R892	QRD167J-682	6.8K 1/6W CARBON RES	UT
	R893	QRD161J-105	1M 1/6W CARBON RES	U
	R893	QRD161J-105	1M 1/6W CARBON RES	UB
	R893	QRD161J-105	1M 1/6W CARBON RES	UP
	R893	QRD161J-105	1M 1/6W CARBON RES	US
	R893	QRD161J-105	1M 1/6W CARBON RES	UT
	R894	QRD161J-472	4.7K 1/6W CARBON RES	U
	R894	QRD161J-472	4.7K 1/6W CARBON RES	UB
	R894	QRD161J-472	4.7K 1/6W CARBON RES	UP
	R894	QRD161J-472	4.7K 1/6W CARBON RES	US
	R894	QRD161J-472	4.7K 1/6W CARBON RES	UT
	R897	QRD161J-331	330 1/6W CARBON RES	U
	R897	QRD161J-331	330 1/6W CARBON RES	UB
	R897	QRD161J-331	330 1/6W CARBON RES	UP
	R897	QRD161J-331	330 1/6W CARBON RES	US
	R897	QRD161J-331	330 1/6W CARBON RES	UT
	R898	QRD161J-561	560 1/6W CARBON RES	U
	R898	QRD161J-561	560 1/6W CARBON RES	UB
	R898	QRD161J-561	560 1/6W CARBON RES	UP
	R898	QRD161J-561	560 1/6W CARBON RES	US
	R898	QRD161J-561	560 1/6W CARBON RES	UT
	R899	QRD161J-391	390 1/6W CARBON RES	U
	R899	QRD161J-391	390 1/6W CARBON RES	UB
	R899	QRD161J-391	390 1/6W CARBON RES	UP
	R899	QRD161J-391	390 1/6W CARBON RES	US
	R899	QRD161J-391	390 1/6W CARBON RES	UT
	R901	QRD161J-103	10K 1/6W CARBON RES	
	R902	QRD161J-103	10K 1/6W CARBON RES	
	R903	QRD161J-103	10K 1/6W CARBON RES	
	R904	QRD161J-103	10K 1/6W CARBON RES	
	R905	QRD161J-103	10K 1/6W CARBON RES	
	R906	QRD161J-472	4.7K 1/6W CARBON RES	
	R911	QRD161J-471	470 1/6W CARBON RES	
	R912	QRD161J-471	470 1/6W CARBON RES	
	R913	QRD161J-471	470 1/6W CARBON RES	
	R914	QRD161J-471	470 1/6W CARBON RES	
⚠	R915	QRX022J-3R3A	3.3 2W METAL FILM	
⚠	R916	QRX022J-3R3A	3.3 2W METAL FILM	
	R921	QRD161J-473	47K 1/6W CARBON RES	
	R922	QRD161J-103	10K 1/6W CARBON RES	
	R923	QRD161J-224	220K 1/6W CARBON RES	
	R924	QRD161J-224	220K 1/6W CARBON RES	
	R925	QRD161J-473	47K 1/6W CARBON RES	
	R927	QRD161J-273	27K 1/6W CARBON RES	
	R930	QRD161J-103	10K 1/6W CARBON RES	
	R931	QRD161J-103	10K 1/6W CARBON RES	
	R932	QRD161J-103	10K 1/6W CARBON RES	
	R933	QRD161J-103	10K 1/6W CARBON RES	
	R934	QRD161J-103	10K 1/6W CARBON RES	
	R935	QRD161J-103	10K 1/6W CARBON RES	
	R936	QRD161J-222	2.2K 1/6W CARBON RES	
	R937	QRD161J-103	10K 1/6W CARBON RES	
	R938	QRD161J-103	10K 1/6W CARBON RES	
	R939	QRD161J-103	10K 1/6W CARBON RES	
	R941	QRD161J-471	470 1/6W CARBON RES	
	R942	QRD161J-103	10K 1/6W CARBON RES	
	R943	QRD161J-103	10K 1/6W CARBON RES	
	VR927	QVPA603-103A	10K TRIMMER RE	

⚠ : SAFETY PARTS

OTHERS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		FSKL4005-001	SHIELD PLAT	BS
		FSKL4005-001	SHIELD PLAT	EF
		FSKL4005-001	SHIELD PLAT	EN
		FSKL4005-001	SHIELD PLAT	G
		FSKL4005-001	SHIELD PLAT	GI
		FSKL4005-001	SHIELD PLAT	VX
		FSMA4006-001	SHIELD PLAT	BS
		FSMA4006-001	SHIELD PLAT	EF
		FSMA4006-001	SHIELD PLAT	EN
		FSMA4006-001	SHIELD PLAT	G
		FSMA4006-001	SHIELD PLAT	GI
		FSMA4006-001	SHIELD PLAT	VX
		FSMW1025-003	PRINTED BOA	
		VYH7653-004	I.C.PROTECT	
	J001	VMC0107-009	CONNECT TER	
	J411	EMV7122-103	CONNECT TER	U
	J411	EMV7122-103	CONNECT TER	UB
	J411	EMV7122-103	CONNECT TER	UP
	J411	EMV7122-103	CONNECT TER	US
	J411	EMV7122-103	CONNECT TER	UT
	J412	EMV7122-103	CONNECT TER	U
	J412	EMV7122-103	CONNECT TER	UB
	J412	EMV7122-103	CONNECT TER	UP
	J412	EMV7122-103	CONNECT TER	US
	J412	EMV7122-103	CONNECT TER	UT
	J701	FMMJ4001-01	SPEAKER TER	
	J702	EMV7122-103	CONNECT TER	
	J801	VMC0161-007	CONNECT TER	
	J802	EMN00YV-206A	PIN JACK	
	J803	FSMV0002-14P	CONNECT TER	
	J804	FSMV0002-14P	CONNECT TER	
	J813	FSMV0002-14X	CONNECTOR	
	J814	FSMV0002-14X	CONNECTOR	
	L101	EQL4007-1R0	INDUCTOR	
	L102	EQL4007-150T	INDUCTOR	BS
	L102	EQL4007-150T	INDUCTOR	EF
	L102	EQL4007-150T	INDUCTOR	EN
	L102	EQL4007-150T	INDUCTOR	G
	L102	EQL4007-150T	INDUCTOR	GI
	L102	EQL4007-150T	INDUCTOR	VX

OTHERS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	L801	VQP0018-4R7Y	INDUCTOR I/	
	P601	EWS265-A220J2	SOCKET WIRE	
	S801	QSS7A12-E01	SLIDE SWITC	BS
	S801	QSS7A12-E01	SLIDE SWITC	EF
	S801	QSS7A12-E01	SLIDE SWITC	EN
	S801	QSS7A12-E01	SLIDE SWITC	G
	S801	QSS7A12-E01	SLIDE SWITC	GI
	S801	QSS7A12-E01	SLIDE SWITC	VX
	T105	EQT2140-017	I.F.TRANSFO	
	T107	ECB1560-010	CERAMIC FIL	
	T111	EQR7121-002	RF COIL	BS
	T111	EQR7121-002	RF COIL	EF
	T111	EQR7121-002	RF COIL	EN
	T111	EQR7121-002	RF COIL	G
	T111	EQR7121-002	RF COIL	GI
	T111	EQR7121-002	RF COIL	VX
	T111	EQR7121-004	RF COIL	A
	T111	EQR7121-004	RF COIL	U
	T111	EQR7121-004	RF COIL	UB
	T111	EQR7121-004	RF COIL	UP
	T111	EQR7121-004	RF COIL	US
	T111	EQR7121-004	RF COIL	UT
	AT101	EMB41YV-302K	ANTENNA TER	BS
	AT101	EMB41YV-302K	ANTENNA TER	EF
	AT101	EMB41YV-302K	ANTENNA TER	EN
	AT101	EMB41YV-302K	ANTENNA TER	G
	AT101	EMB41YV-302K	ANTENNA TER	GI
	AT101	EMB41YV-302K	ANTENNA TER	VX
	AT101	FMMB10YV-401K	ANTENNA TER	A
	AT101	FMMB10YV-401K	ANTENNA TER	U
	AT101	FMMB10YV-401K	ANTENNA TER	UB
	AT101	FMMB10YV-401K	ANTENNA TER	UP
	AT101	FMMB10YV-401K	ANTENNA TER	US
	AT101	FMMB10YV-401K	ANTENNA TER	UT
	BC410	EMV5109-007A	MALE CONNEC	
	CF101	ECB2118-007R	CERAMIC FIL	BS
	CF101	ECB2118-007R	CERAMIC FIL	EF
	CF101	ECB2118-007R	CERAMIC FIL	EN
	CF101	ECB2118-007R	CERAMIC FIL	G
	CF101	ECB2118-007R	CERAMIC FIL	GI
	CF101	ECB2118-007R	CERAMIC FIL	VX
	CF101	ECB2123-006R	CERAMIC FIL	A
	CF101	ECB2123-006R	CERAMIC FIL	U
	CF101	ECB2123-006R	CERAMIC FIL	UB
	CF101	ECB2123-006R	CERAMIC FIL	UP
	CF101	ECB2123-006R	CERAMIC FIL	US
	CF101	ECB2123-006R	CERAMIC FIL	UT
	CF102	ECB2118-007R	CERAMIC FIL	BS
	CF102	ECB2118-007R	CERAMIC FIL	EF
	CF102	ECB2118-007R	CERAMIC FIL	EN
	CF102	ECB2118-007R	CERAMIC FIL	G
	CF102	ECB2118-007R	CERAMIC FIL	GI
	CF102	ECB2118-007R	CERAMIC FIL	VX
	CF102	ECB2123-006R	CERAMIC FIL	A
	CF102	ECB2123-006R	CERAMIC FIL	U

OTHERS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	CF102	ECB2123-006R	CERAMIC FIL	UB
	CF102	ECB2123-006R	CERAMIC FIL	UP
	CF102	ECB2123-006R	CERAMIC FIL	US
	CF102	ECB2123-006R	CERAMIC FIL	UT
	CN311	VMC0314-S08	CONNECT TER	
	CN312	VMC0314-S08	CONNECT TER	
	CN313	VMC0314-S08	CONNECT TER	
	CN314	VMC0314-S14	CONNECT TER	
⚠	CP801	ICP-N15	I.C.PROTECT	
	EP001	EMZ4002-001Z	EARTH PLATE	A
	EP001	EMZ4002-001Z	EARTH PLATE	BS
	EP001	EMZ4002-001Z	EARTH PLATE	EF
	EP001	EMZ4002-001Z	EARTH PLATE	EN
	EP001	EMZ4002-001Z	EARTH PLATE	G
	EP001	EMZ4002-001Z	EARTH PLATE	GI
	EP001	EMZ4002-001Z	EARTH PLATE	U
	EP001	EMZ4002-001Z	EARTH PLATE	UB
	EP001	EMZ4002-001Z	EARTH PLATE	UP
	EP001	EMZ4002-001Z	EARTH PLATE	US
	EP001	EMZ4002-001Z	EARTH PLATE	UT
	EP001	EMZ4002-001Z	EARTH PLATE	VX
	FE101	EAF2203-004	FRONT END	A
	FE101	EAF2203-004	FRONT END	U
	FE101	EAF2203-004	FRONT END	UB
	FE101	EAF2203-004	FRONT END	UP
	FE101	EAF2203-004	FRONT END	US
	FE101	EAF2203-004	FRONT END	UT
	FE101	EAF2203-005	FRONT END	BS
	FE101	EAF2203-005	FRONT END	EF
	FE101	EAF2203-005	FRONT END	EN
	FE101	EAF2203-005	FRONT END	G
	FE101	EAF2203-005	FRONT END	GI
	FE101	EAF2302-002	FRONT END	VX
	JA400	VMC0161-R26	CONNECT TER	
	JB002	EMV7163-009	CONNECT TER	
	JB003	EMV7163-012	CONNECT TER	
	LP102	EQF0102-001	LOWPASS FIL	BS
	LP102	EQF0102-001	LOWPASS FIL	EF
	LP102	EQF0102-001	LOWPASS FIL	EN
	LP102	EQF0102-001	LOWPASS FIL	G
	LP102	EQF0102-001	LOWPASS FIL	GI
	LP102	EQF0102-001	LOWPASS FIL	VX
	LP141	EQF0101-013	LOWPASS FIL	
	LP142	EQF0101-013	LOWPASS FIL	
	RY701	ESK7D24-213R	RELAY	
	XT102	ECX0007-200KWJ1	CRYSTAL	
	XT103	ECX0000-456KR	CERAMIC RES	
	XT891	ECX0000-400KS	CERAMIC RES	U
	XT891	ECX0000-400KS	CERAMIC RES	UB
	XT891	ECX0000-400KS	CERAMIC RES	UP
	XT891	ECX0000-400KS	CERAMIC RES	US
	XT891	ECX0000-400KS	CERAMIC RES	UT

■ System Control & Power Amplifier P. C. Board (FSB-002)

TRANSISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q001	2SB1187(F,G)	SI.TRANSIST ROHM	
	Q003	DTC144ES	DIGITAL TRA ROHM	
	Q004	DTA144ES	DIGITAL TRA ROHM	
	Q005	2SB1187(F,G)	SI.TRANSIST ROHM	
	Q006	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q007	DTA144ES	DIGITAL TRA ROHM	
	Q008	DTC144ES	DIGITAL TRA ROHM	
	Q009	2SD2061(F,G)	SI.TRANSIST ROHM	
	Q010	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q400	DTC114YS	DIGITAL TRA ROHM	
	Q401	DTC143TS	DIGITAL TRA ROHM	
	Q402	DTC143TS	DIGITAL TRA ROHM	
	Q403	DTC143TS	DIGITAL TRA ROHM	
	Q404	DTA114TS	DIGITAL TRA ROHM	
	Q405	DTA114TS	DIGITAL TRA ROHM	
	Q406	2SA933S(RS)	SI.TRANSIST	
	Q407	2SA933S(RS)	SI.TRANSIST	
	Q408	2SA933S(RS)	SI.TRANSIST	
	Q409	2SA933S(RS)	SI.TRANSIST	
	Q410	DTA114ES	DIGITAL TRA ROHM	
	Q411	DTA114ES	DIGITAL TRA ROHM	
	Q412	DTA114ES	DIGITAL TRA ROHM	
	Q413	DTA114ES	DIGITAL TRA ROHM	
	Q414	DTC114TN	DIGITAL TRA ROHM	
	Q415	DTC114TN	DIGITAL TRA ROHM	
	Q416	DTA114ES	DIGITAL TRA ROHM	
	Q731	2SK301(P,Q)	F.E.T.	

I. C. S.

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC400	MN172412J6P1	I.C.	
	IC401	NJM4580L	I.C(MONO-AN DAINICHI	U
	IC401	NJM4580L	I.C(MONO-AN DAINICHI	UB
	IC401	NJM4580L	I.C(MONO-AN DAINICHI	UP
	IC401	NJM4580L	I.C(MONO-AN DAINICHI	US
	IC401	NJM4580L	I.C(MONO-AN DAINICHI	UT
	IC402	NJH32H380A	I.C(M) DAINICHI	
	IC701	TDA7295	I.C(M) 0050	
	IC702	TDA7295	I.C(M) 0050	

DIODES

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D011	MTZ13JC	ZENER DIODE ROHM	
	D012	MTZ5.1JC	ZENER DIODE ROHM	
	D013	MTZ6.8JC	ZENER DIODE ROHM	
	D030	MTZ6.8JC	ZENER DIODE ROHM	
	D400	1SS254	DIODE	
	D401	1SS254	DIODE	
	D402	1SS254	DIODE	
	D403	1SS254	DIODE	
	D404	1SS254	DIODE	
	D405	1SS254	DIODE	
	D406	1SS254	DIODE	
	D407	1SS254	DIODE	
	D408	1SS254	DIODE	
	D409	1SS254	DIODE	
	D410	1SS254	DIODE	
	D411	1SS254	DIODE	
	D412	1SS254	DIODE	
	D413	1SS254	DIODE	
	D414	1SS254	DIODE	
	D415	1SS254	DIODE	
	D416	1SS254	DIODE	
	D417	1SS254	DIODE	
	D418	1SS254	DIODE	
	D419	1SS254	DIODE	
	D420	SLR-342MCA47	L.E.D. ROHM	
	D421	SLR-342MCA47	L.E.D. ROHM	
	D422	SLR-342MCA47	L.E.D. ROHM	
	D423	SLR-342MCA47	L.E.D. ROHM	
	D424	SLR-342MCA47	L.E.D. ROHM	
	D425	SLR-342MCA47	L.E.D. ROHM	
	D426	SLR-342MCA47	L.E.D. ROHM	
	D427	SLR-342MCA47	L.E.D. ROHM	
	D428	SLR-342VC3F	L.E.D. ROHM	
	D429	SLA-380LT	L.E.D. ROHM	BS
	D429	SLR-342VC3F	L.E.D. ROHM	A
	D429	SLR-342VC3F	L.E.D. ROHM	EF
	D429	SLR-342VC3F	L.E.D. ROHM	EN
	D429	SLR-342VC3F	L.E.D. ROHM	G
	D429	SLR-342VC3F	L.E.D. ROHM	GI
	D429	SLR-342VC3F	L.E.D. ROHM	U
	D429	SLR-342VC3F	L.E.D. ROHM	UB
	D429	SLR-342VC3F	L.E.D. ROHM	UP
	D429	SLR-342VC3F	L.E.D. ROHM	US
	D429	SLR-342VC3F	L.E.D. ROHM	UT
	D429	SLR-342VC3F	L.E.D. ROHM	VX

DIODES

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D430	SIR-56SB3F	L.E.D. ROHM	
	D440	1SS254	DIODE	
	D441	1SS254	DIODE	A
	D441	1SS254	DIODE	BS
	D441	1SS254	DIODE	EF
	D441	1SS254	DIODE	EN
	D441	1SS254	DIODE	G
	D441	1SS254	DIODE	GI
	D442	1SS254	DIODE	A
	D442	1SS254	DIODE	BS
	D442	1SS254	DIODE	EF
	D442	1SS254	DIODE	EN
	D442	1SS254	DIODE	G
	D442	1SS254	DIODE	GI
	D442	1SS254	DIODE	U
	D442	1SS254	DIODE	UB
	D442	1SS254	DIODE	UP
	D442	1SS254	DIODE	US
	D442	1SS254	DIODE	UT
	D443	1SS254	DIODE	BS
	D443	1SS254	DIODE	EF
	D443	1SS254	DIODE	EN
	D443	1SS254	DIODE	G
	D443	1SS254	DIODE	GI
	D443	1SS254	DIODE	VX
	D701	1SS254	DIODE	
	D702	1SS254	DIODE	
	D704	1SS254	DIODE	

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C011	QETC1CM-226ZM	22MF 16V E.CAPACITO	
	C012	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C013	QETC1CM-226ZM	22MF 16V E.CAPACITO	
	C014	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C016	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	
	C017	QETC1AM-476Z	47MF 10V AL E.CAPAC	
	C018	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C019	QETC1AM-476Z	47MF 10V AL E.CAPAC	
	C400	QCT30CH-220Y	22PF 50V CER.CAPACI	
	C401	QCT30CH-220Y	22PF 50V CER.CAPACI	
	C402	QCFB1HZ-104Y	0.1MF 50V CER.CAPACI	
	C405	QCZ0205-155	1.5MF 25V C.CAPACITO	
	C406	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C407	QER50JM-107	100MF 6.3V AL E.CAPAC	
	C408	QETC1HM-476	47MF 50V E.CAPACITO	
	C409	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	
	C410	QER51HM-475	4.7MF 50V AL E.CAPAC	
	C411	QETN1HM-225Z	2.2MF 50V AL E.CAPAC	
	C412	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C413	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C414	QCHB1EZ-223	0.022MF 25V CER.CAPACI	
	C416	QER50JM-107	100MF 6.3V AL E.CAPAC	
	C417	QEKF1CM-106Z	10MF 16V E.CAPACITO	
	C420	QEA40HZ-229B	22000MF E.CAPACITO	
	C425	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C426	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C427	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C430	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	U
	C430	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UB
	C430	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UP
	C430	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	US
	C430	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UT
	C431	QER51EM-106	10MF 25V E.CAPACITO	U
	C431	QER51EM-106	10MF 25V E.CAPACITO	UB
	C431	QER51EM-106	10MF 25V E.CAPACITO	UP
	C431	QER51EM-106	10MF 25V E.CAPACITO	US
	C431	QER51EM-106	10MF 25V E.CAPACITO	UT
	C432	QCBB1HK-101Y	100PF 50V CER.CAPACI	U
	C432	QCBB1HK-101Y	100PF 50V CER.CAPACI	UB
	C432	QCBB1HK-101Y	100PF 50V CER.CAPACI	UP
	C432	QCBB1HK-101Y	100PF 50V CER.CAPACI	US
	C432	QCBB1HK-101Y	100PF 50V CER.CAPACI	UT
	C433	QETN1HM-106Z	10MF 50V AL E.CAPAC	U
	C433	QETN1HM-106Z	10MF 50V AL E.CAPAC	UB
	C433	QETN1HM-106Z	10MF 50V AL E.CAPAC	UP
	C433	QETN1HM-106Z	10MF 50V AL E.CAPAC	US
	C433	QETN1HM-106Z	10MF 50V AL E.CAPAC	UT
	C434	QER51EM-106	10MF 25V E.CAPACITO	U
	C434	QER51EM-106	10MF 25V E.CAPACITO	UB
	C434	QER51EM-106	10MF 25V E.CAPACITO	UP
	C434	QER51EM-106	10MF 25V E.CAPACITO	US
	C434	QER51EM-106	10MF 25V E.CAPACITO	UT
	C435	QCBB1HK-101Y	100PF 50V CER.CAPACI	U
	C435	QCBB1HK-101Y	100PF 50V CER.CAPACI	UB
	C435	QCBB1HK-101Y	100PF 50V CER.CAPACI	UP
	C435	QCBB1HK-101Y	100PF 50V CER.CAPACI	US
	C435	QCBB1HK-101Y	100PF 50V CER.CAPACI	UT
	C436	QCSB1HJ-470	47PF 50V CER.CAPACI	U
	C436	QCSB1HJ-470	47PF 50V CER.CAPACI	UB
	C436	QCSB1HJ-470	47PF 50V CER.CAPACI	UP
	C436	QCSB1HJ-470	47PF 50V CER.CAPACI	US
	C436	QCSB1HJ-470	47PF 50V CER.CAPACI	UT
	C437	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	U
	C437	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UB
	C437	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UP
	C437	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	US
	C437	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UT
	C438	QCHB1EZ-223	0.022MF 25V CER.CAPACI	U
	C438	QCHB1EZ-223	0.022MF 25V CER.CAPACI	UB
	C438	QCHB1EZ-223	0.022MF 25V CER.CAPACI	UP
	C438	QCHB1EZ-223	0.022MF 25V CER.CAPACI	US
	C438	QCHB1EZ-223	0.022MF 25V CER.CAPACI	UT
	C439	QETN1HM-226Z	22MF 50V AL E.CAPAC	U
	C439	QETN1HM-226Z	22MF 50V AL E.CAPAC	UB
	C439	QETN1HM-226Z	22MF 50V AL E.CAPAC	UP
	C439	QETN1HM-226Z	22MF 50V AL E.CAPAC	US
	C439	QETN1HM-226Z	22MF 50V AL E.CAPAC	UT
	C440	QCHB1EZ-223	0.022MF 25V CER.CAPACI	U
	C440	QCHB1EZ-223	0.022MF 25V CER.CAPACI	UB
	C440	QCHB1EZ-223	0.022MF 25V CER.CAPACI	UP

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C440	QCHB1EZ-223	0.022MF 25V CER.CAPACI	US
	C440	QCHB1EZ-223	0.022MF 25V CER.CAPACI	UT
	C441	QETN1HM-226Z	22MF 50V AL E.CAPAC	U
	C441	QETN1HM-226Z	22MF 50V AL E.CAPAC	UB
	C441	QETN1HM-226Z	22MF 50V AL E.CAPAC	UP
	C441	QETN1HM-226Z	22MF 50V AL E.CAPAC	US
	C441	QETN1HM-226Z	22MF 50V AL E.CAPAC	UT
	C442	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	U
	C442	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UB
	C442	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UP
	C442	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	US
	C442	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UT
	C443	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	U
	C443	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UB
	C443	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UP
	C443	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	US
	C443	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	UT
	C444	QCBB1HK-471Y	470PF 50V CER.CAPACI	
	C445	QCBB1HK-471Y	470PF 50V CER.CAPACI	
	C446	QER61HM-105Z	1MF 50V AL E.CAPAC	U
	C446	QER61HM-105Z	1MF 50V AL E.CAPAC	UB
	C446	QER61HM-105Z	1MF 50V AL E.CAPAC	UP
	C446	QER61HM-105Z	1MF 50V AL E.CAPAC	US
	C446	QER61HM-105Z	1MF 50V AL E.CAPAC	UT
	C701	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C702	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C703	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C704	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C705	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C706	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C707	QETC1HM-476	47MF 50V E.CAPACITO	
	C708	QETC1HM-476	47MF 50V E.CAPACITO	
	C709	QCSB1HY-200Y	20PF 50V CERAMIC	
	C710	QCSB1HY-200Y	20PF 50V CERAMIC	
	C713	QETN1HM-226Z	22MF 50V AL E.CAPAC	
	C714	QETN1HM-226Z	22MF 50V AL E.CAPAC	
	C715	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	
	C716	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	
	C717	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	
	C718	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	
	C719	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C720	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C732	QFV71HJ-124ZM	0.12MF 50V THIN FILM	
	C733	QCFB1EZ-223Y	0.022MF 25V CER.CAPACI	

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R001	QRD161J-222	2.2K 1/6W CARBON RES	
	R002	QRD167J-153	15K 1/6W CARBON RES	
	R003	QRD167J-332	3.3K 1/6W CARBON RES	
	R004	QRD161J-472	4.7K 1/6W CARBON RES	
	R005	QRD161J-222	2.2K 1/6W CARBON RES	
⚠	R006	QRZ0077-8R2X	8.2 1/4W FUSIBLE RE	
⚠	R007	QRZ0077-8R2X	8.2 1/4W FUSIBLE RE	
	R010	QRD161J-221	220 1/6W CARBON RES	
	R015	QRZ0077-390X	39 1/4W FUSIBLE RE	
	R017	QRD161J-681	680 1/6W CARBON RES	
	R018	QRD161J-221	220 1/6W CARBON RES	
	R019	QRD161J-222	2.2K 1/6W CARBON RES	
	R023	QRD161J-681	680 1/6W CARBON RES	
⚠	R025	QRZ0077-4R7	4.7 1/4W FUSE RESIS	
	R400	QRD161J-103	10K 1/6W CARBON RES	
	R402	QRD161J-104	100K 1/6W CARBON RES	
	R403	QRD161J-221	220 1/6W CARBON RES	
	R404	QRD161J-221	220 1/6W CARBON RES	
	R405	QRD161J-103	10K 1/6W CARBON RES	
	R406	QRD161J-103	10K 1/6W CARBON RES	
	R407	QRD161J-103	10K 1/6W CARBON RES	
	R408	QRD161J-103	10K 1/6W CARBON RES	
	R409	QRD161J-101	100 1/6W CARBON RES	
	R410	QRD161J-101	100 1/6W CARBON RES	
	R411	QRD161J-101	100 1/6W CARBON RES	
	R412	QRD161J-101	100 1/6W CARBON RES	
	R413	QRD161J-221	220 1/6W CARBON RES	
	R414	QRD161J-221	220 1/6W CARBON RES	
	R415	QRD161J-104	100K 1/6W CARBON RES	
	R416	QRD161J-221	220 1/6W CARBON RES	
	R417	QRD161J-104	100K 1/6W CARBON RES	
	R418	QRD161J-103	10K 1/6W CARBON RES	
	R419	QRD161J-103	10K 1/6W CARBON RES	
	R420	QRD161J-103	10K 1/6W CARBON RES	
	R421	QRD161J-103	10K 1/6W CARBON RES	
	R422	QRD161J-104	100K 1/6W CARBON RES	
	R423	QRD161J-104	100K 1/6W CARBON RES	
	R424	QRD161J-104	100K 1/6W CARBON RES	
	R425	QRD161J-102	1K 1/6W CARBON RES	
	R426	QRD161J-102	1K 1/6W CARBON RES	
	R427	QRD161J-102	1K 1/6W CARBON RES	
	R430	QRD161J-102	1K 1/6W CARBON RES	U
	R430	QRD161J-102	1K 1/6W CARBON RES	UB
	R430	QRD161J-102	1K 1/6W CARBON RES	UP
	R430	QRD161J-102	1K 1/6W CARBON RES	US
	R430	QRD161J-102	1K 1/6W CARBON RES	UT
	R431	QRD161J-103	10K 1/6W CARBON RES	U
	R431	QRD161J-103	10K 1/6W CARBON RES	UB
	R431	QRD161J-103	10K 1/6W CARBON RES	UP
	R431	QRD161J-103	10K 1/6W CARBON RES	US
	R431	QRD161J-103	10K 1/6W CARBON RES	UT
	R432	QRD161J-104	100K 1/6W CARBON RES	U
	R432	QRD161J-104	100K 1/6W CARBON RES	UB
	R432	QRD161J-104	100K 1/6W CARBON RES	UP
	R432	QRD161J-104	100K 1/6W CARBON RES	US
	R432	QRD161J-104	100K 1/6W CARBON RES	UT
	R433	QRD161J-104	100K 1/6W CARBON RES	U
	R433	QRD161J-104	100K 1/6W CARBON RES	UB
	R433	QRD161J-104	100K 1/6W CARBON RES	UP
	R433	QRD161J-104	100K 1/6W CARBON RES	US
	R433	QRD161J-104	100K 1/6W CARBON RES	UT
	R434	QRD161J-473	47K 1/6W CARBON RES	U
	R434	QRD161J-473	47K 1/6W CARBON RES	UB
	R434	QRD161J-473	47K 1/6W CARBON RES	UP
	R434	QRD161J-473	47K 1/6W CARBON RES	US

⚠ : SAFETY PARTS

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R434	QRD161J-473	47K 1/6W CARBON RES	UT
	R435	QRD161J-101	100 1/6W CARBON RES	U
	R435	QRD161J-101	100 1/6W CARBON RES	UB
	R435	QRD161J-101	100 1/6W CARBON RES	UP
	R435	QRD161J-101	100 1/6W CARBON RES	US
	R435	QRD161J-101	100 1/6W CARBON RES	UT
	R440	QVAA72B-E54B	50K VARIABLE R	U
	R440	QVAA72B-E54B	50K VARIABLE R	UB
	R440	QVAA72B-E54B	50K VARIABLE R	UP
	R440	QVAA72B-E54B	50K VARIABLE R	US
	R440	QVAA72B-E54B	50K VARIABLE R	UT
	R450	QRD161J-221	220 1/6W CARBON RES	
	R451	QRD161J-103	10K 1/6W CARBON RES	
	R452	QRD161J-104	100K 1/6W CARBON RES	
	R453	QRD161J-104	100K 1/6W CARBON RES	
	R454	QRD161J-221	220 1/6W CARBON RES	
	R455	QRD167J-1R0	1 1/6W CARBON	
	R456	QRD161J-103	10K 1/6W CARBON RES	
	R703	QRD161J-513	51K 1/6W CARBON RES	
	R704	QRD161J-513	51K 1/6W CARBON RES	
⚠	R705	QRD14CJ-122SX	1.2K 1/4W UNF.CARBON	
⚠	R706	QRD14CJ-122SX	1.2K 1/4W UNF.CARBON	
	R707	QRD161J-513	51K 1/6W CARBON RES	
	R708	QRD161J-513	51K 1/6W CARBON RES	
	R709	QRD161J-122	1.2K 1/6W CARBON RES	
	R710	QRD161J-122	1.2K 1/6W CARBON RES	
	R715	QRD161J-104	100K 1/6W CARBON RES	
	R716	QRD161J-823	82K 1/6W CARBON RES	
⚠	R717	QRD14CJ-100SX	10 1/4W UNF.CARBON	
⚠	R718	QRD14CJ-100SX	10 1/4W UNF.CARBON	
⚠	R719	QRD14CJ-100SX	10 1/4W UNF.CARBON	
⚠	R720	QRD14CJ-100SX	10 1/4W UNF.CARBON	
⚠	R721	QRX014J-R22	0.22 1W METAL FILM	
⚠	R722	QRX014J-R22	0.22 1W METAL FILM	
	R723	QRD161J-102	1K 1/6W CARBON RES	
	R724	QRD167J-223	22K 1/6W CARBON RES	
	R731	QRD161J-335YT	3.3M 1/6W CARBON RES	
	R732	QRD161J-333	33K 1/6W CARBON RES	
	R733	QRD167J-223	22K 1/6W CARBON RES	
	R735	QRD161J-202	2K 1/6W CARBON RES	
	R736	QRD161J-474	470K 1/6W CARBON RES	
	R737	QRD161J-105	1M 1/6W CARBON RES	
	RA400	QRB109J-104	100K 1/10W NETWORK RE	
	RA401	QRB169J-104	100K 1/10W RESISTOR A	
	RA403	QRB089J-104	100K 1/10W NETWORK RE	
	RA404	QRB049J-472	4.7K 1/10W NETWORK RE	

⚠ : SAFETY PARTS

OTHERS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		E406779-001	SPACER	U
		E406779-001	SPACER	UB
		E406779-001	SPACER	US
		E406779-001	SPACER	UT
		FSMW1024-003	PRINTED BOA	A
		FSMW1024-003	PRINTED BOA	BS
		FSMW1024-003	PRINTED BOA	EF
		FSMW1024-003	PRINTED BOA	EN
		FSMW1024-003	PRINTED BOA	G
		FSMW1024-003	PRINTED BOA	GI
		FSMW1024-003	PRINTED BOA	VX
		FSMW1024-103	PRINTED BOA	U
		FSMW1024-103	PRINTED BOA	UB
		FSMW1024-103	PRINTED BOA	US
		FSMW1024-103	PRINTED BOA	UT
		FSMW1024-202	PRINTED BOA	UP
		QWE881-16RR	VINYL WIRE	U
		QWE881-16RR	VINYL WIRE	UB
		QWE881-16RR	VINYL WIRE	US
		QWE881-16RR	VINYL WIRE	UT
		QWE882-05RR	VINYL WIRE	UP
		QWE882-18RR	VINYL WIRE	U
		QWE882-18RR	VINYL WIRE	UB
		QWE882-18RR	VINYL WIRE	US
		QWE882-18RR	VINYL WIRE	UT
		QWE883-16RR	VINYL WIRE	U
		QWE883-16RR	VINYL WIRE	UB
		QWE883-16RR	VINYL WIRE	US
		QWE883-16RR	VINYL WIRE	UT
		QWE884-23RR	VINYL WIRE	U
		QWE884-23RR	VINYL WIRE	UB
		QWE884-23RR	VINYL WIRE	US
		QWE884-23RR	VINYL WIRE	UT
		QWE886-15RR	VINYL WIRE	U
		QWE886-15RR	VINYL WIRE	UB
		QWE886-15RR	VINYL WIRE	US
		QWE886-15RR	VINYL WIRE	UT
		QWE888-22RR	VINYL WIRE	U
		QWE888-22RR	VINYL WIRE	UB
		QWE888-22RR	VINYL WIRE	US
		QWE888-22RR	VINYL WIRE	UT
		VYH7653-001	SPRING	
	J002	EWR39D-25LS	CORD	
	J400	EWR36D-17LS	FLAT WIRE A	U
	J400	EWR36D-17LS	FLAT WIRE A	UB
	J400	EWR36D-17LS	FLAT WIRE A	UP
	J400	EWR36D-17LS	FLAT WIRE A	US
	J400	EWR36D-17LS	FLAT WIRE A	UT
	J401	EWR33D-35LS	FLAT WIRE A	
	J430	QMS3RA0-EE0S	MICROPHONE	
	J431	QMS3RA0-EE0S	MICROPHONE	U
	J431	QMS3RA0-EE0S	MICROPHONE	UB
	J431	QMS3RA0-EE0S	MICROPHONE	UP
	J431	QMS3RA0-EE0S	MICROPHONE	US
	J431	QMS3RA0-EE0S	MICROPHONE	UT

⚠ : SAFETY PARTS

OTHERS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	L701	EQL0011-R45J1	INDUCTOR	
	L702	EQL0011-R45J1	INDUCTOR	
	S400	QSQ1001-E01AJ4	PUSH SWITCH	
	S401	QSQ1001-E01AJ4	PUSH SWITCH	
	S402	QSQ1001-E01AJ4	PUSH SWITCH	
	S403	QSQ1001-E01AJ4	PUSH SWITCH	
	S404	QSQ1001-E01AJ4	PUSH SWITCH	
	S405	QSQ1001-E01AJ4	PUSH SWITCH	
	S406	QSQ1001-E01AJ4	PUSH SWITCH	
	S407	QSQ1001-E01AJ4	PUSH SWITCH	
	S408	QSQ1001-E01AJ4	PUSH SWITCH	
	S409	QSQ1001-E01AJ4	PUSH SWITCH	
	S410	QSQ1001-E01AJ4	PUSH SWITCH	
	S411	QSQ1001-E01AJ4	PUSH SWITCH	
	S412	QSQ1001-E01AJ4	PUSH SWITCH	
	S413	QSQ1001-E01AJ4	PUSH SWITCH	
	S414	QSQ1001-E01AJ4	PUSH SWITCH	
	S415	QSQ1001-E01AJ4	PUSH SWITCH	
	S416	QSQ1001-E01AJ4	PUSH SWITCH	
	S417	QSQ1001-E01AJ4	PUSH SWITCH	
	S418	QSQ1001-E01AJ4	PUSH SWITCH	
	S419	QSQ1001-E01AJ4	PUSH SWITCH	
	S420	QSQ1001-E01AJ4	PUSH SWITCH	
	S421	QSQ1001-E01AJ4	PUSH SWITCH	
	S422	QSQ1001-E01AJ4	PUSH SWITCH	
	S423	QSQ1001-E01AJ4	PUSH SWITCH	
	S424	QSQ1001-E01AJ4	PUSH SWITCH	
	BC400	EWS267-A910	SOCKET WIRE	
	CN400	VMC0161-R09	CONNECT TER	
	FL400	ELU0001-153	FLUORESCENT	
	FT001	VMZ0087-001Z	FUSE HOLDER	
	FT002	VMZ0087-001Z	FUSE HOLDER	
	FT003	VMZ0087-001Z	FUSE HOLDER	
	FT004	VMZ0087-001Z	FUSE HOLDER	
	FT005	VMZ0087-001Z	FUSE HOLDER	
	FT006	VMZ0087-001Z	FUSE HOLDER	
	FT101	VMZ0087-001Z	FUSE HOLDER	U
	FT101	VMZ0087-001Z	FUSE HOLDER	UB
	FT101	VMZ0087-001Z	FUSE HOLDER	US
	FT101	VMZ0087-001Z	FUSE HOLDER	UT
	FT102	VMZ0087-001Z	FUSE HOLDER	U
	FT102	VMZ0087-001Z	FUSE HOLDER	UB
	FT102	VMZ0087-001Z	FUSE HOLDER	US
	FT102	VMZ0087-001Z	FUSE HOLDER	UT
	JA002	EMV5163-009R	CONNECT TER	
	JA003	EMV5163-012R	CONNECT TER	
	JB400	VMC0161-R26	CONNECT TER	
	JS400	QSJ4002-E04J5	ROTARY SWIT	
	RS001	QSR8001-E01U	ROTARY SWIT	U
	RS001	QSR8001-E01U	ROTARY SWIT	UB
	RS001	QSR8001-E01U	ROTARY SWIT	US
	RS001	QSR8001-E01U	ROTARY SWIT	UT
	TB001	EMZ4001-001	TAB	A
	TB001	EMZ4001-001	TAB	BS
	TB001	EMZ4001-001	TAB	EF
	TB001	EMZ4001-001	TAB	EN
	TB001	EMZ4001-001	TAB	G
	TB001	EMZ4001-001	TAB	GI
	TB001	EMZ4001-001	TAB	U
	TB001	EMZ4001-001	TAB	UB
	TB001	EMZ4001-001	TAB	UP
	TB001	EMZ4001-001	TAB	US
	TB001	EMZ4001-001	TAB	UT
	TB001	EMZ4001-001	TAB	VX
	TB002	EMZ4001-001	TAB	A
	TB002	EMZ4001-001	TAB	BS
	TB002	EMZ4001-001	TAB	EF
	TB002	EMZ4001-001	TAB	EN
	TB002	EMZ4001-001	TAB	G
	TB002	EMZ4001-001	TAB	GI
	TB002	EMZ4001-001	TAB	U
	TB002	EMZ4001-001	TAB	UB
	TB002	EMZ4001-001	TAB	UP
	TB002	EMZ4001-001	TAB	US
	TB002	EMZ4001-001	TAB	UT
	TB002	EMZ4001-001	TAB	VX
	WP001	EWT011-158	TERMINAL WI	BS
	WP001	EWT011-158	TERMINAL WI	EF
	WP001	EWT011-158	TERMINAL WI	EN
	WP001	EWT011-158	TERMINAL WI	G
	WP001	EWT011-158	TERMINAL WI	GI
	WP001	EWT011-158	TERMINAL WI	VX
	XT400	FSCX4001-002	CRYSTAL	

■ Tape, Deck Amplifier P. C. Board (ENJ-090)

TRANSISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q301	2SC2001(L,K)	SI.TRANSIST	
	Q302	2SC2001(L,K)	SI.TRANSIST	
	Q303	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q304	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q305	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q306	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q309	DTC144TS	DIGITAL TRA ROHM	
	Q310	DTC144TS	DIGITAL TRA ROHM	
	Q326	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q327	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q328	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q329	2SC1740S(R,S)	SI.TRANSIST ROHM	
	Q330	2SC1740S(R,S)	SI.TRANSIST ROHM	BS
	Q330	2SC1740S(R,S)	SI.TRANSIST ROHM	EF
	Q330	2SC1740S(R,S)	SI.TRANSIST ROHM	EN
	Q330	2SC1740S(R,S)	SI.TRANSIST ROHM	G
	Q330	2SC1740S(R,S)	SI.TRANSIST ROHM	GI
	Q330	2SC1740S(R,S)	SI.TRANSIST ROHM	VX
	Q331	DTA144ES	DIGITAL TRA ROHM	BS
	Q331	DTA144ES	DIGITAL TRA ROHM	EF
	Q331	DTA144ES	DIGITAL TRA ROHM	EN
	Q331	DTA144ES	DIGITAL TRA ROHM	G
	Q331	DTA144ES	DIGITAL TRA ROHM	GI
	Q331	DTA144ES	DIGITAL TRA ROHM	VX
	Q341	2SD2144S(VW)	SI.TRANSIST ROHM	
	Q342	2SD2144S(VW)	SI.TRANSIST ROHM	

I. C. S.

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC301	BA15218N	I.C(MONO-AN ROHM	
	IC302	NJM4580LD	I.C(MONO-AN DAINICHI	
	IC303	NJM4580LD	I.C(MONO-AN DAINICHI	
	IC304	BA3126N	I.C(MONO-AN ROHM	

DIODES

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	D290	1SS254	DIODE	
	D303	1SS254	DIODE	BS
	D303	1SS254	DIODE	EF
	D303	1SS254	DIODE	EN
	D303	1SS254	DIODE	G
	D303	1SS254	DIODE	GI
	D303	1SS254	DIODE	VX

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C301	QETB1HM-225	2.2MF 50V AL E.CAPAC	
	C302	QETB1HM-225	2.2MF 50V AL E.CAPAC	
	C303	QETB1HM-225	2.2MF 50V AL E.CAPAC	
	C304	QETB1HM-225	2.2MF 50V AL E.CAPAC	
	C305	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C306	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C307	QCBB1HK-181Y	180PF 50V CER.CAPACI	
	C308	QCBB1HK-181Y	180PF 50V CER.CAPACI	
	C309	QETB1EM-106	10MF 25V AL E.CAPAC	
	C310	QETB1EM-106	10MF 25V AL E.CAPAC	
	C311	QCSB1HJ-470	47PF 50V CER.CAPACI	
	C312	QCSB1HJ-470	47PF 50V CER.CAPACI	
	C313	QETB1CM-476	47MF 16V AL E.CAPAC	
	C314	QETB1CM-476	47MF 16V AL E.CAPAC	
	C315	QETB1HM-105	1MF 50V AL E.CAPAC	
	C316	QETB1HM-105	1MF 50V AL E.CAPAC	
	C317	QETB1EM-106	10MF 25V AL E.CAPAC	
	C318	QETB1CM-107	100MF 16V AL E.CAPAC	
	C319	QCF21HP-103A	0.01MF 50V CER.CAPACI	BS
	C319	QCF21HP-103A	0.01MF 50V CER.CAPACI	EF
	C319	QCF21HP-103A	0.01MF 50V CER.CAPACI	EN
	C319	QCF21HP-103A	0.01MF 50V CER.CAPACI	G
	C319	QCF21HP-103A	0.01MF 50V CER.CAPACI	GI
	C319	QCF21HP-103A	0.01MF 50V CER.CAPACI	VX
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	A
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	BS
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EF
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EN
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	G
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	GI
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	U
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UB
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UP
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	US
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UT
	C320	QFLB1HJ-682	6800PF 50V MYLAR CAPA	VX
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	A
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	BS
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	EF
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	EN
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	G
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	GI
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	U
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	UB
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	UP

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	US
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	UT
	C321	QFLB1HJ-332	3300PF 50V MYLAR CAPA	VX
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	A
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	BS
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	EF
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	EN
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	G
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	GI
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	U
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	UB
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	UP
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	US
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	UT
	C322	QFLB1HJ-332	3300PF 50V MYLAR CAPA	VX
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	A
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	BS
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	EF
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	EN
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	G
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	GI
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	U
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	UB
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	UP
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	US
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	UT
	C323	QFLB1HJ-183	0.018MF 50V MYLAR CAPA	VX
	C324	QFP31HJ-472Z	4700PF 50V POLYPROPY.	
	C325	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C326	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C327	QCBB1HK-331Y	330PF 50V CER.CAPACI	BS
	C327	QCBB1HK-331Y	330PF 50V CER.CAPACI	EF
	C327	QCBB1HK-331Y	330PF 50V CER.CAPACI	EN
	C327	QCBB1HK-331Y	330PF 50V CER.CAPACI	G
	C327	QCBB1HK-331Y	330PF 50V CER.CAPACI	GI
	C327	QCBB1HK-331Y	330PF 50V CER.CAPACI	VX
	C328	QCHB1EZ-223	0.022MF 25V CER.CAPACI	BS
	C328	QCHB1EZ-223	0.022MF 25V CER.CAPACI	EF
	C328	QCHB1EZ-223	0.022MF 25V CER.CAPACI	EN
	C328	QCHB1EZ-223	0.022MF 25V CER.CAPACI	G
	C328	QCHB1EZ-223	0.022MF 25V CER.CAPACI	GI
	C331	QCXB1CM-122	1200PF 16V POLYPROPY.	
	C332	QCXB1CM-122	1200PF 16V POLYPROPY.	
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	A
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	BS
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	EF
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	EN
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	G
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	GI
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	U
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UB
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UP
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	US
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UT
	C333	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	VX
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	A
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	BS
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	EF
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	EN
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	G
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	GI
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	U
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UB
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UP
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	US
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	UT
	C334	QFLB1HJ-333	0.033MF 50V MYLAR CAPA	VX
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	A
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	BS
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EF
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EN
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	G
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	GI
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	U
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UB
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UP
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	US
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UT
	C347	QFLB1HJ-682	6800PF 50V MYLAR CAPA	VX
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	A
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	BS
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EF
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EN
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	G
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	GI
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	U
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UB
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UP
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	US
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UT
	C348	QFLB1HJ-682	6800PF 50V MYLAR CAPA	VX
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	A
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	BS
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	EF
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	EN
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	G
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	GI
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	U
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	UB
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	UP
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	US
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	UT
	C349	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	VX
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	A
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	BS
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	EF
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	EN
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	G
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	GI
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	U

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	UB
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	UP
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	US
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	UT
	C350	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	VX
	C353	QCY21HK-392	3900PF 50V CER.CAPACI	
	C354	QCY21HK-392	3900PF 50V CER.CAPACI	
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	A
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	BS
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	EF
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	EN
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	G
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	GI
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	U
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	UB
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	UP
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	US
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	UT
	C355	QFLB1HJ-822	8200PF 50V MYLAR CAPA	VX
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	A
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	BS
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	EF
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	EN
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	G
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	GI
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	U
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	UB
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	UP
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	US
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	UT
	C356	QFLB1HJ-822	8200PF 50V MYLAR CAPA	VX
	C361	QCF21HP-473A	0.047MF 50V CER.CAPACI	
	C362	QCF21HP-473A	0.047MF 50V CER.CAPACI	
	C365	QEK51HM-225G	2.2MF 50V AL E.CAPAC	
	C366	QEK51HM-225G	2.2MF 50V AL E.CAPAC	
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	A
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	BS
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EF
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EN
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	G
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	GI
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	U
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UB
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UP
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	US
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UT
	C367	QFLB1HJ-682	6800PF 50V MYLAR CAPA	VX
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	A
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	BS
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EF
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EN
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	G
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	GI
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	U
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UB
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UP
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	US
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UT
	C368	QFLB1HJ-682	6800PF 50V MYLAR CAPA	VX
	C369	QETB1AM-107	100MF 10V AL E.CAPAC	
	C370	QETB1AM-107	100MF 10V AL E.CAPAC	
	C371	QEK51HM-225G	2.2MF 50V AL E.CAPAC	
	C372	QEK51HM-225G	2.2MF 50V AL E.CAPAC	
	C373	QETB1CM-476	47MF 16V AL E.CAPAC	
	C374	QEK51CM-476	47MF 16V AL E.CAPAC	
	C375	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C376	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C377	QCXB1CM-122	1200PF 16V POLYPROPY.	
	C378	QCXB1CM-122	1200PF 16V POLYPROPY.	
	C379	QCBB1HK-331Y	330PF 50V CER.CAPACI	
	C380	QCBB1HK-331Y	330PF 50V CER.CAPACI	
	C381	QETB1CM-476	47MF 16V AL E.CAPAC	
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	A
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	BS
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EF
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EN
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	G
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	GI
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	U
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UB
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UP
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	US
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UT
	C385	QFLB1HJ-682	6800PF 50V MYLAR CAPA	VX
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	A
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	BS
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EF
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	EN
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	G
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	GI
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	U
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UB
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UP
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	US
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	UT
	C386	QFLB1HJ-682	6800PF 50V MYLAR CAPA	VX
	C387	QETB1AM-107	100MF 10V AL E.CAPAC	
	C388	QETB1AM-107	100MF 10V AL E.CAPAC	
	C389	QETB1HM-225	2.2MF 50V AL E.CAPAC	
	C390	QETB1HM-225	2.2MF 50V AL E.CAPAC	
	C391	QETB1CM-476	47MF 16V AL E.CAPAC	
	C392	QETB1CM-476	47MF 16V AL E.CAPAC	
	C393	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C394	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C395	QCBB1HK-331Y	330PF 50V CER.CAPACI	
	C396	QCBB1HK-331Y	330PF 50V CER.CAPACI	
	C397	QCBB1HK-391Y	390PF 50V CER.CAPACI	
	C398	QCBB1HK-391Y	390PF 50V CER.CAPACI	

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R271	QRD161J-104	100K 1/6W CARBON RES	
	R272	QRD161J-104	100K 1/6W CARBON RES	
	R280	QRD161J-221	220 1/6W CARBON RES	
	R281	QRD161J-224	220K 1/6W CARBON RES	
	R282	QRD161J-224	220K 1/6W CARBON RES	
	R283	QRD161J-100	10 1/6W CARBON RES	
	R284	QRD161J-100	10 1/6W CARBON RES	
	R285	QRD161J-393	39K 1/6W CARBON RES	
	R286	QRD161J-393	39K 1/6W CARBON RES	
	R287	QRD14CJ-6R8SX	6.8 1/4W UNF.CARBON	
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	A
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	BS
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	EF
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	EN
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	G
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	GI
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	U
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	UB
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	UP
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	US
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	UT
⚠	R288	QRZ0077-100	10 1/4W FUSIBLE RE	VX
	R290	QRD167J-332	3.3K 1/6W CARBON RES	
	R292	QRD161J-221	220 1/6W CARBON RES	
	R293	QRD167J-511	510 1/6W CARBON RES	
	R294	QRD161J-561	560 1/6W CARBON RES	
	R296	QRD161J-104	100K 1/6W CARBON RES	
	R297	QRD161J-222	2.2K 1/6W CARBON RES	
	R298	QRD161J-561	560 1/6W CARBON RES	BS
	R298	QRD161J-561	560 1/6W CARBON RES	EF
	R298	QRD161J-561	560 1/6W CARBON RES	EN
	R298	QRD161J-561	560 1/6W CARBON RES	G
	R298	QRD161J-561	560 1/6W CARBON RES	GI
	R298	QRD161J-561	560 1/6W CARBON RES	VX
	R301	QRD161J-103	10K 1/6W CARBON RES	
	R302	QRD161J-103	10K 1/6W CARBON RES	
	R303	QRD167J-153	15K 1/6W CARBON RES	
	R304	QRD167J-153	15K 1/6W CARBON RES	
	R315	QRD161J-103	10K 1/6W CARBON RES	
	R316	QRD161J-103	10K 1/6W CARBON RES	
	R317	QRD161J-103	10K 1/6W CARBON RES	
	R318	QRD161J-103	10K 1/6W CARBON RES	
	R319	QRD161J-103	10K 1/6W CARBON RES	
	R320	QRD161J-103	10K 1/6W CARBON RES	
	R321	QRD161J-103	10K 1/6W CARBON RES	
	R322	QRD161J-103	10K 1/6W CARBON RES	
	R323	QRD167J-562	5.6K 1/6W CARBON RES	
	R324	QRD167J-562	5.6K 1/6W CARBON RES	
	R325	QRD167J-562	5.6K 1/6W CARBON RES	
	R326	QRD167J-562	5.6K 1/6W CARBON RES	
	R331	QRD167J-682	6.8K 1/6W CARBON RES	
	R332	QRD167J-682	6.8K 1/6W CARBON RES	
	R333	QRD161J-471	470 1/6W CARBON RES	
	R334	QRD161J-471	470 1/6W CARBON RES	
	R347	QRD161J-221	220 1/6W CARBON RES	
	R348	QRD161J-221	220 1/6W CARBON RES	
	R349	QRD161J-821	820 1/6W CARBON RES	
	R350	QRD161J-821	820 1/6W CARBON RES	
	R351	QRD167J-272	2.7K 1/6W CARBON RES	
	R352	QRD167J-272	2.7K 1/6W CARBON RES	
	R353	QRD161J-103	10K 1/6W CARBON RES	
	R354	QRD161J-103	10K 1/6W CARBON RES	
	R355	QRD161J-243	24K 1/6W CARBON RES	
	R356	QRD161J-243	24K 1/6W CARBON RES	
	R357	QRD161J-683	68K 1/6W CARBON RES	
	R358	QRD161J-683	68K 1/6W CARBON RES	
	R359	QRD167J-223	22K 1/6W CARBON RES	
	R360	QRD167J-223	22K 1/6W CARBON RES	
	R361	QRD161J-393	39K 1/6W CARBON RES	
	R362	QRD161J-393	39K 1/6W CARBON RES	
	R363	QRD161J-221	220 1/6W CARBON RES	
	R364	QRD161J-221	220 1/6W CARBON RES	
	R365	QRD161J-470	47 1/6W CARBON RES	BS
	R365	QRD161J-470	47 1/6W CARBON RES	EF
	R365	QRD161J-470	47 1/6W CARBON RES	EN
	R365	QRD161J-470	47 1/6W CARBON RES	G
	R365	QRD161J-470	47 1/6W CARBON RES	GI
	R365	QRD161J-470	47 1/6W CARBON RES	VX
	R366	QRD161J-470	47 1/6W CARBON RES	BS
	R366	QRD161J-470	47 1/6W CARBON RES	EF
	R366	QRD161J-470	47 1/6W CARBON RES	EN
	R366	QRD161J-470	47 1/6W CARBON RES	G
	R366	QRD161J-470	47 1/6W CARBON RES	GI
	R366	QRD161J-470	47 1/6W CARBON RES	VX
	R367	QRD161J-274	270K 1/6W CARBON RES	
	R368	QRD161J-274	270K 1/6W CARBON RES	
	R369	QRD161J-470	47 1/6W CARBON RES	
	R370	QRD161J-470	47 1/6W CARBON RES	
	R371	QRD161J-203	20K 1/6W CARBON RES	
	R372	QRD161J-203	20K 1/6W CARBON RES	
	R375	QRD161J-103	10K 1/6W CARBON RES	
	R376	QRD161J-103	10K 1/6W CARBON RES	
	R377	QRD161J-221	220 1/6W CARBON RES	
	R378	QRD161J-221	220 1/6W CARBON RES	
	R379	QRD161J-912	9.1K 1/6W CARBON RES	
	R380	QRD161J-912	9.1K 1/6W CARBON RES	
	R381	QRD161J-221	220 1/6W CARBON RES	
	R382	QRD161J-221	220 1/6W CARBON RES	
	R383	QRD161J-470	47 1/6W CARBON RES	BS
	R383	QRD161J-470	47 1/6W CARBON RES	EF
	R383	QRD161J-470	47 1/6W CARBON RES	EN
	R383	QRD161J-470	47 1/6W CARBON RES	G
	R383	QRD161J-470	47 1/6W CARBON RES	GI
	R383	QRD161J-470	47 1/6W CARBON RES	VX
	R384	QRD161J-470	47 1/6W CARBON RES	BS
	R384	QRD161J-470	47 1/6W CARBON RES	EF
	R384	QRD161J-470	47 1/6W CARBON RES	EN
	R384	QRD161J-470	47 1/6W CARBON RES	G
	R384	QRD161J-470	47 1/6W CARBON RES	GI
	R384	QRD161J-470	47 1/6W CARBON RES	VX

⚠ : SAFETY PARTS

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R385	QRD161J-274	270K 1/6W CARBON RES	
	R386	QRD161J-274	270K 1/6W CARBON RES	
	R387	QRD161J-470	47 1/6W CARBON RES	
	R388	QRD161J-470	47 1/6W CARBON RES	
	R391	QRD161J-203	20K 1/6W CARBON RES	
	R392	QRD161J-203	20K 1/6W CARBON RES	
	VR301	QVPA603-501A	500 TRIMMER RE	
	VR302	QVPA603-501A	500 TRIMMER RE	
	VR303	QVPA603-501A	500 TRIMMER RE	
	VR304	QVPA603-501A	500 TRIMMER RE	
	VR305	QVPA603-104A	100K TRIMMER RE	
	VR306	QVPA603-104A	100K TRIMMER RE	
	VR307	QVPA603-104A	100K TRIMMER RE	
	VR308	QVPA603-104A	100K TRIMMER RE	
	VR309	QVPA603-104A	100K TRIMMER RE	
	VR310	QVPA603-104A	100K TRIMMER RE	
	VR311	QVPA603-503A	50K VARIABLE R	
	VR312	QVPA603-503A	50K VARIABLE R	

OTHERS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
		EMW10536-101	PRINTED BOA	
		QWE351-07RR	VINYL WIRE	
	K321	ENZ8101-011	FERRITE BEA	BS
	K321	ENZ8101-011	FERRITE BEA	EF
	K321	ENZ8101-011	FERRITE BEA	EN
	K321	ENZ8101-011	FERRITE BEA	G
	K321	ENZ8101-011	FERRITE BEA	GI
	K321	ENZ8101-011	FERRITE BEA	VX
	K392	ENZ8101-011	FERRITE BEA	BS
	K392	ENZ8101-011	FERRITE BEA	EF

OTHERS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	K392	ENZ8101-011	FERRITE BEA	EN
	K392	ENZ8101-011	FERRITE BEA	G
	K392	ENZ8101-011	FERRITE BEA	GI
	K392	ENZ8101-011	FERRITE BEA	VX
	L301	ENZ6002-012	OSCILLATOR	
	L303	EQL2106-562	INDUCTOR	
	L304	EQL2106-562	INDUCTOR	
	L305	EQL2106-223	INDUCTOR	
	L306	EQL2106-223	INDUCTOR	
	CN301	VMC0314-P08	CONNECT TER	
	CN302	VMC0314-P08	CONNECT TER	
	CN331	EMV7155-106R	CONNECT TER	A
	CN331	EMV7155-106R	CONNECT TER	BS
	CN331	EMV7155-106R	CONNECT TER	EF
	CN331	EMV7155-106R	CONNECT TER	EN
	CN331	EMV7155-106R	CONNECT TER	G
	CN331	EMV7155-106R	CONNECT TER	GI
	CN331	EMV7155-106R	CONNECT TER	U
	CN331	EMV7155-106R	CONNECT TER	UB
	CN331	EMV7155-106R	CONNECT TER	UP
	CN331	EMV7155-106R	CONNECT TER	US
	CN331	EMV7155-106R	CONNECT TER	UT
	CN331	EMV7155-106R	CONNECT TER	VX
	CN332	EMV7155-106R	CONNECT TER	A
	CN332	EMV7155-106R	CONNECT TER	BS
	CN332	EMV7155-106R	CONNECT TER	EF
	CN332	EMV7155-106R	CONNECT TER	EN
	CN332	EMV7155-106R	CONNECT TER	G
	CN332	EMV7155-106R	CONNECT TER	GI
	CN332	EMV7155-106R	CONNECT TER	U
	CN332	EMV7155-106R	CONNECT TER	UB
	CN332	EMV7155-106R	CONNECT TER	UP
	CN332	EMV7155-106R	CONNECT TER	US
	CN332	EMV7155-106R	CONNECT TER	UT
	CN332	EMV7155-106R	CONNECT TER	VX

■ CD, Servo P. C. Board (ENN-443)

TRANSISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	Q501	2SA952(L,K)	SI.TRANSIST NEC	
	Q581	2SA952(L,K)	SI.TRANSIST NEC	
	Q591	2SA933S(RS)	SI.TRANSIST	

I. C. S.

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	IC501	TA8191F	I.C(MONO-AN TOSHIBA	
	IC502	BA6897FPW	I.C(MONO-AN	
	IC601	TC9284BF	I.C(M) TOSHIBA	
	IC604	NJM4580L	I.C(MONO-AN DAINICHI	

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C501	QCBB1HK-821Y	820PF 50V CER.CAPACI	
	C503	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C504	QETN1HM-106Z	10MF 50V AL E.CAPAC	
	C511	QCSB1HK-3R9	3.9PF 50V CER.CAPACI	
	C512	QCSB1HJ-270Y	27PF 50V CER.CAPACI	
	C513	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	
	C514	QFLB1HJ-472	4700PF 50V MYLAR CAPA	
	C521	QCBB1HK-331Y	330PF 50V CER.CAPACI	
	C522	QFLB1HJ-104	0.1MF 50V MYLAR CAPA	
	C523	QFVB1HJ-154	0.15MF 50V THIN FILM	
	C524	QENC1HM-475Z	4.7MF 50V NP E.CAPAC	
	C529	QETB1AM-336	33MF 10V AL E.CAPAC	
	C531	QCVB1CM-822Y	8200PF 16V CER.CAPACI	
	C541	QCBB1HK-101Y	100PF 50V CER.CAPACI	
	C542	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	
	C543	QFLB1HJ-393	0.039MF 50V MYLAR CAPA	
	C545	QENC1HM-105Z	1MF 50V NP E.CAPAC	
	C546	QFLB1HJ-223	0.022MF 50V MYLAR CAPA	
	C561	QETC1AM-476Z	47MF 10V AL E.CAPAC	
	C562	QETN1HM-475Z	4.7MF 50V AL E.CAPAC	
	C581	QETC1AM-477ZM	470MF 10V C.CAPACITO	
	C582	QEK51CM-476	47MF 16V AL E.CAPAC	
	C591	QCZ0205-155	1.5MF 25V C.CAPACITO	
	C592	QCZ0205-155	1.5MF 25V C.CAPACITO	
	C593	QCC21EM-104	0.1MF 25V CER.CAPACI	
	C599	QEK51AM-107	100MF 10V AL E.CAPAC	
	C601	QCSB1HJ-220	22PF 50V CER.CAPACI	
	C602	QCSB1HJ-220	22PF 50V CER.CAPACI	
	C603	QFVB1HJ-104	0.1MF 50V THIN FILM	
	C604	QCC21EM-104	0.1MF 25V CER.CAPACI	

CAPACITORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	C605	QCVB1CM-103Y	0.01MF 16V CER.CAPACI	
	C606	QCC21EM-473	0.047MF 25V CER.CAPACI	
	C607	QFVB1HJ-104	0.1MF 50V THIN FILM	
	C608	QCC21EM-473	0.047MF 25V CER.CAPACI	
	C609	QFVB1HJ-104	0.1MF 50V THIN FILM	
	C611	QCS21HJ-101A	100PF 50V CER.CAPACI	
	C612	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	
	C613	QFLB1HJ-103	0.01MF 50V MYLAR CAPA	
	C614	QFLB1HJ-332	3300PF 50V MYLAR CAPA	
	C615	QFLB1HJ-332	3300PF 50V MYLAR CAPA	
	C616	QCC21EM-103	0.01MF 25V CER.CAPACI	
	C631	QEK51AM-107	100MF 10V AL E.CAPAC	
	C632	QER50JM-107	100MF 6.3V AL E.CAPAC	
	C651	QEK51AM-107	100MF 10V AL E.CAPAC	
	C652	QEK51CM-226	22MF 16V AL E.CAPAC	
	C661	QCBB1HK-820Y	82PF 50V CER.CAPACI	
	C662	QCBB1HK-820Y	82PF 50V CER.CAPACI	
	C663	QCSB1HJ-270Y	27PF 50V CER.CAPACI	
	C671	QCBB1HK-820Y	82PF 50V CER.CAPACI	
	C672	QCBB1HK-820Y	82PF 50V CER.CAPACI	
	C673	QCSB1HJ-270Y	27PF 50V CER.CAPACI	

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R501	QRD161J-124	120K 1/6W CARBON RES	
	R502	QRD161J-103	10K 1/6W CARBON RES	
	R504	QRD161J-202	2K 1/6W CARBON RES	
	R505	QRD161J-100	10 1/6W CARBON RES	
	R506	QRD161J-101	100 1/6W CARBON RES	
	R507	QRD161J-120	12 1/6W CARBON RES	
	R511	QRD161J-183	18K 1/6W CARBON RES	
	R512	QRD161J-392	3.9K 1/6W CARBON RES	
	R513	QRD167J-332	3.3K 1/6W CARBON RES	
	R514	QRD161J-472	4.7K 1/6W CARBON RES	
	R515	QRD161J-103	10K 1/6W CARBON RES	
	R516	QRD161J-103	10K 1/6W CARBON RES	
	R517	QRD161J-202	2K 1/6W CARBON RES	
	R518	QRD161J-335YT	3.3M 1/6W CARBON RES	
	R521	QRD161J-103	10K 1/6W CARBON RES	
	R522	QRD161J-392	3.9K 1/6W CARBON RES	
	R523	QRD161J-821	820 1/6W CARBON RES	
	R524	QRD161J-331	330 1/6W CARBON RES	
	R525	QRD161J-472	4.7K 1/6W CARBON RES	
	R529	QRD167J-562	5.6K 1/6W CARBON RES	
	R531	QRD161J-473	47K 1/6W CARBON RES	
	R532	QRD161J-104	100K 1/6W CARBON RES	
	R533	QRD167J-153	15K 1/6W CARBON RES	
	R541	QRD161J-123	12K 1/6W CARBON RES	
	R542	QRD167J-332	3.3K 1/6W CARBON RES	

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R543	QRD161J-473	47K 1/6W CARBON RES	
	R544	QRD167J-223	22K 1/6W CARBON RES	
	R545	QRD161J-103	10K 1/6W CARBON RES	
	R548	QRD167J-153	15K 1/6W CARBON RES	
	R549	QRD161J-821	820 1/6W CARBON RES	
	R550	QRD161J-104	100K 1/6W CARBON RES	
	R551	QRD167J-223	22K 1/6W CARBON RES	
	R552	QRD167J-562	5.6K 1/6W CARBON RES	
	R553	QRD161J-821	820 1/6W CARBON RES	
	R555	QRD161J-392	3.9K 1/6W CARBON RES	
	R559	QRD161J-125	1.2M 1/6W CARBON RES	
	R561	QRD167J-562	5.6K 1/6W CARBON RES	
	R562	QRD161J-102	1K 1/6W CARBON RES	
	R563	QRD167J-152	1.5K 1/6W CARBON RES	
	R564	QRD167J-332	3.3K 1/6W CARBON RES	
	R565	QRD161J-683	68K 1/6W CARBON RES	
	R566	QRD161J-273	27K 1/6W CARBON RES	
	R583	QRD161J-101	100 1/6W CARBON RES	
	R584	QRD161J-331	330 1/6W CARBON RES	
	R591	QRD161J-473	47K 1/6W CARBON RES	
	R611	QRD161J-102	1K 1/6W CARBON RES	
	R612	QRD161J-103	10K 1/6W CARBON RES	
	R613	QRD161J-224	220K 1/6W CARBON RES	
	R614	QRD161J-473	47K 1/6W CARBON RES	
	R615	QRD161J-225	2.2M 1/6W CARBON RES	
	R616	QRD161J-333	33K 1/6W CARBON RES	
	R651	QRD161J-820	82 1/6W CARBON RES	
	R652	QRD161J-333	33K 1/6W CARBON RES	
	R653	QRD161J-473	47K 1/6W CARBON RES	
	R661	QRD161J-473	47K 1/6W CARBON RES	

RESISTORS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	R662	QRD161J-473	47K 1/6W CARBON RES	
	R663	QRD161J-473	47K 1/6W CARBON RES	
	R664	QRD161J-473	47K 1/6W CARBON RES	
	R665	QRD161J-273	27K 1/6W CARBON RES	
	R666	QRD161J-273	27K 1/6W CARBON RES	
	R671	QRD161J-473	47K 1/6W CARBON RES	
	R672	QRD161J-473	47K 1/6W CARBON RES	
	R673	QRD161J-473	47K 1/6W CARBON RES	
	R674	QRD161J-473	47K 1/6W CARBON RES	
	R675	QRD161J-273	27K 1/6W CARBON RES	
	R676	QRD161J-273	27K 1/6W CARBON RES	
	VR501	QVPA601-154A	150K TRIMMER RE	

OTHERS

⚠	ITEM	PART NUMBER	DESCRIPTION	AREA
	X601	CSA16.93MXZ040T	CERAMIC RES	
	#C	VMW1364-002X	PRINTED BOA	
	CN501	EMV7144-015R	CONNECT TER	
	CN502	EMV5109-006B	CONNECT TER	
	CN503	VMC0161-R07	CONNECT TER	
	CN601	VMC0161-R09	CONNECT TER	
	SP501	VYH7237-004	I.C.COVER	
	SP502	VYH7653-003	I.C.PROTECT	
	SP601	VYH7237-002	I.C.COVER	

Accessories List

Block No. M 5 M M

⚠	Item	Part Number	Part Name	Q'ty	Description	Area
	1	E30580-2383A	INSTRUCTION BOOK	1		A,BS
		E30580-2384A	INSTRUCTION BOOK	1		EF,G,GI
		E30580-2385A	INSTRUCTION BOOK	1		EN
		E30580-2386A	INSTRUCTION BOOK	1		VX
		E30580-2387A	INSTRUCTION BOOK	1		U,UB,US,UT
		E30580-2388A	INSTRUCTION BOOK	1		UP
	2	QPGA025-03505B	ENVELOPE	1		
	3	QPGA025-03505	ENVELOPE	1		UP
	4	EQB4001-015	LOOP ANTENNA	1		UP
⚠	5	V04062-001	SIEMENS PLUG	1		U,UT
⚠		ENZ2202-001	SIEMENS PLUG	1		US
	6	BT-20066A	DISTRIBUTOR LIST	1		BS
		BT-20134	WARRANTY CARD	1		G
		BT-54003-1	WARRANTY CARD	1		BS
		BT-56001-1	WARRANTY CARD	1		A
		BT-56004-3	WARRANTY CARD	1		UP
	7	E43486-340A	SAFETY SHEET	1		BS
	8	EWP201-011	ANTENNA	1		A,U,UB,UP,US,UT
		EWP503-001	BILT-IN ANTENNA	1		BS,EF,EN,G,GI,VX
	10	RM-SED3SU	REMOTE CONTROL UNIT	1		
	11	UM-3(DJ)-2PSA	BATTERY	1		

⚠ :Safety Parts

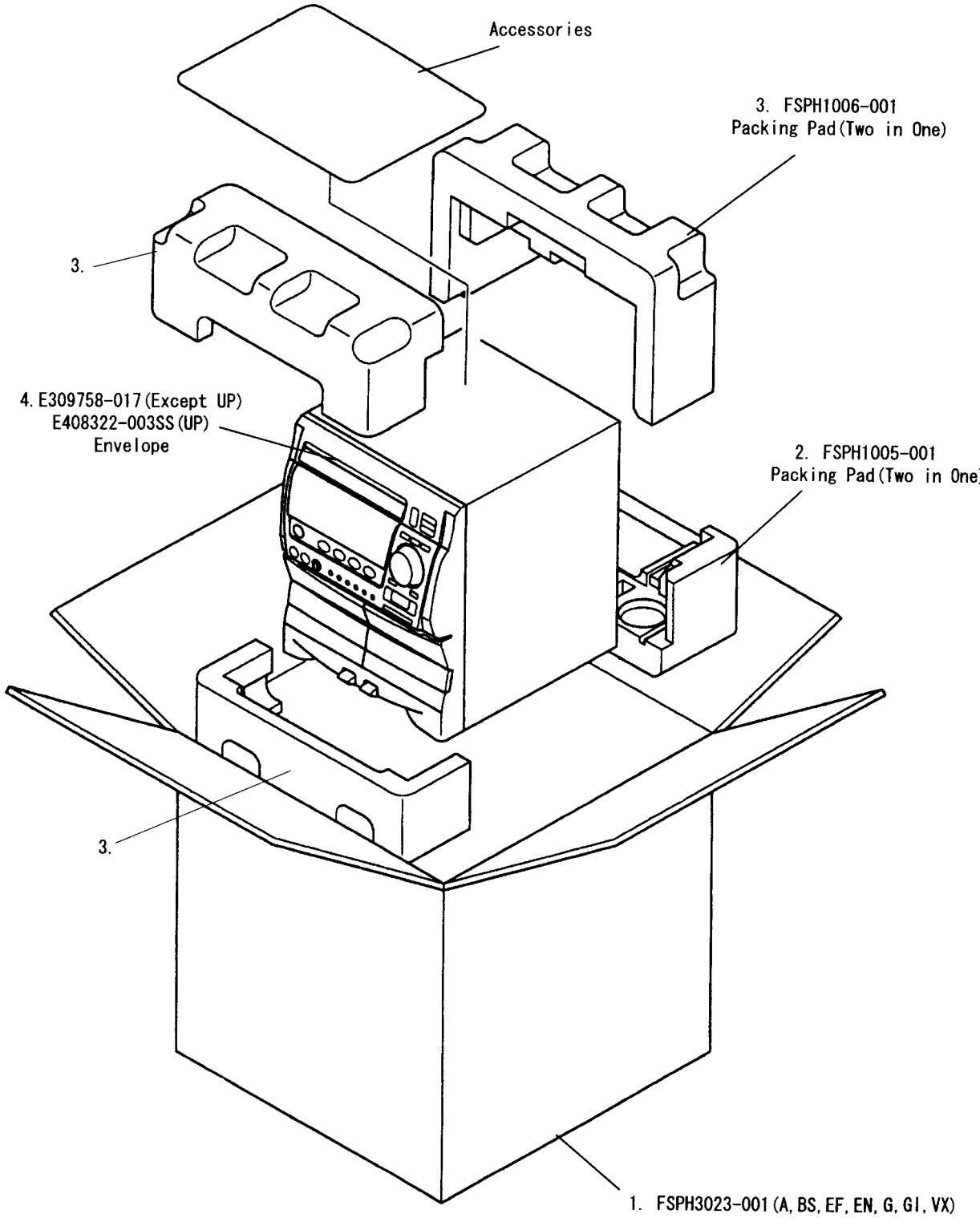
The Marks for Designated Areas

A	Australia	BS ...	the U.K.	EF	Continental Europe	EN	Scandinavia
G	Germany	GI ...	Itary	U	Universal Type	UB	Hong Kong
UP	Korea	US ...	Singapore	UT	Taiwan	VX	East Europe

No mark indicates all area.

Packing Materials and Part Numbers

Block No. M 6 M M



The Mark for Designated Areas.							
A	Australia	BS	the U.K.	EN	Scandinavia	EF ...	Continental Type
GI ...	Italy	G	Germany	UB	Hong Kong	U	Universal Type
UP ...	Korea	US	Singapore	UT	Taiwan	VX ..	Ease Europe
No mark indicates all area.							

–MEMO–